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JUNE, 1910

NUMBER 6

BULLETIN OF THE
TULANE UNIVERSITY OF LOUISIANA

MEDICAL DEPARTMENT
AND
DEPARTMENT OF PHARMACY
1909-1910



ANNOUNCEMENT FOR 1910-1911

Published Monthly by The Tulane University of Louisiana

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THE TULANE UNIVERSITY OF LOUISIANA

NEW ORLEANS

EDWIN BOONE CRAIGHEAD, LL. D., D. C. L., President.

The University, in all its departments, is located in the City of New Orleans, the metropolis of the South. There are nine Departments, with twenty-three buildings. Modern dormitories, extensive laboratories, libraries, and museums.

THE ACADEMIC COLLEGES, comprising the College of Arts and Sciences and College of Technology, offers full courses in Literature, Science, Architecture, and all branches of Engineering. Many scholarships in the Academic Colleges open to high school graduates.

THE NEWCOMB COLLEGE, for Young Women, located in Washington Avenue, in the best residential district, offers in the *Academic School* full courses in Literature, History and Science; in the *School of Art* every facility for the study and practice of industrial and fine arts, with picture galleries and an art library; in the *School of Music* superior facilities for the study of Music in all its branches; in the *School of Household Economy* professional, special and elective courses in Domestic Science and Domestic Art and in the *School of Education*, practical and theoretical training for teachers of high and elementary schools.

THE TEACHERS COLLEGE offers both practical and theoretical training for superintendents and principals and teachers of high and elementary schools, with course leading to the degree of Bachelor of Arts in Education.

THE GRADUATE DEPARTMENT, open to graduates of approved colleges, offers advanced courses leading to degrees of A. M., M. E., C. E., and Ph. D. A number of Fellowships are awarded annually.

THE LAW DEPARTMENT, offers a three-year course leading to the degree of Bachelor of Laws, and prepares students for admission to practice not only in this State, but in any of the Common Law States.

THE PHARMACY DEPARTMENT, offers scientific training in Pharmacy, Drug and Food Analysis, with superior laboratory facilities.

THE MEDICAL DEPARTMENT, is the oldest medical college in the Southwest, with unequaled clinical and anatomical advantages. The first two years are given in new buildings of this department on the Tulane Campus, and last two years at the Hutchinson Memorial and the great Charity Hospital.

THE POST-GRADUATE MEDICAL DEPARTMENT (*New Orleans Polyclinic*), open to licensed practitioners, affords unusual clinical facilities for the study of diseases. Instruction is carried on at the Polyclinic, at the Charity Hospital, and at the Eye, Ear, Nose and Throat Hospital.

THE DENTAL DEPARTMENT, offers a full three year's course leading to the degree of D. D. S., with practically unlimited clinical material.

For special circulars or for detailed information, address the Deans of the respective departments. For General Register of the University, address,

SECRETARY OF UNIVERSITY,

Gibson Hall, New Orleans.

MEDICAL DEPARTMENT
AND
DEPARTMENT OF PHARMACY
OF THE
TULANE UNIVERSITY OF LOUISIANA

Formerly { 1834-1847 Medical College of Louisiana
1847-1884 Medical Department, University of Louisiana

1909-1910

ANNOUNCEMENT FOR 1910-1911

CALENDAR

1910

Sept. 15 to 30	{ Entrance and Condition Ex- aminations.
Sept. 21 Wednesday	Registration of students.
Oct. 1 Saturday	University Year begins.
Oct. 17 Monday	Last day of Registration.
Nov. 24 Thursday	Thanksgiving Day.
Dec. 24 Saturday	Christmas Holidays begin.

1911

Jan. 2 Monday	University reopens.
Feb. 28 Tuesday	Mardi Gras.
Mar. 10 Friday	Founders' Day.
May 8 to 13	Alumni Week
May 13 Saturday	Senior Class Day Exercises.
May 17 Wednesday	Commencement Exercises.
June 1 Thursday	University Year ends.

BOARD OF ADMINISTRATORS

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HAMILTON POLK JONES, M. D., Instructor in Clinical Medicine.

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and Clinical Assistant in Clinical Medicine.
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- PHILIP FRANK, M. D., Demonstrator and Instructor of Physiology.
- L. L. CAZENAVETTE, M. D., Lecturer and Clinical Assistant in
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- P. A. MCILHENNY, M. D., Clinical Assistant in Surgery and Or-
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of the Nervous System.

M. T. LANAUX, M. D., Chief of Clinic and Assistant in Diseases of the Nervous System.

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J. BARNETT, M. D., Chief of Clinic in Gynecology.

RANDOLPH LYONS, Assistant Demonstrator in the Laboratory of Clinical Medicine and Assistant in Clinical Medicine.

ISIDORE COHN, M. D., Assistant Demonstrator in the Laboratory of Minor Surgery.

JEROME E. LANDRY, M. D., Instructor in Pharmacology, Therapeutics, and Clinical Medicine.

CHARLES NOEL CHAVIGNY, M. D., Clinical Instructor in Obstetrics.

PETER BLAISE SALATICH, M. D., Clinical Instructor in Obstetrics.

DONALD FRANCIS MACDONALD, B. Sc., M. Sc., Demonstrator of Chemistry.

SAMUEL LOGAN, M. D., Assistant in Venereal and Genito-Urinary Diseases.

CLARK H. RICE, M. D., Instructor in Diseases of Children.

JAMES TOWNSEND WOLFE, M. D., Instructor in Diseases of Children.

ALLAN A. KENNEDY, M. D., Clinical Assistant in Otology, Laryngology and Rhinology.

WILLIAM THOMAS PATTON, M. D., Ph. C., Clinical Assistant in Medicine and Assistant Demonstrator in Laboratory of Pathology and Bacteriology.

C. G. COLE, M. D., Clinical Assistant in Gynecology.

C. P. MAY, M. D., Assistant in Diseases of Children.

JOHN G. GAGE, M. D., Instructor in Medicine.

MR. H. HAYS BULLARD, Instructor in Anatomy.

ADOLPH OTTO HOEFELD, M. D., Assistant in Diseases of Children.

L. M. THOMASON, M. D., Assistant in Diseases of Children.

ROBERT C. FINLAY, M. D., Clinical Assistant in Diseases of the Skin.

W. LASSITER, M. D., Clinical Assistant in Surgery.

ABNER HUGH COOK, M. D., Instructor in Anatomy.

J. F. POINTS, M. D., Clinical Assistant in Obstetrics.

H. W. KOSTMAYER, A. B., M. D., Clinical Assistant in Gynecology.

J. T. O. FERRALL, M. D., Assistant Demonstrator of Pathology and Bacteriology.

MR. LLOYD ARNOLD, Prosector in Anatomy.

ANSEL M. CAINE, M. D., Assistant Clinical Instructor in Surgery.

MR. H. N. T. NICHOLS, Assistant in Anatomy.

MR. JOHN W. FAULK, Student-Assistant in Anatomy.

MR. C. A. McWILLIAMS, Student-Assistant in Anatomy.

MR. ERNEST CHARLES SAMUEL, Student-Demonstrator, Department of Pathology.

MR. HERBERT WINDSOR WADE, Technician and Assistant, Department of Pathology.

MR. FRANK LINSTAEDT, Technical Assistant in Anatomy.

MR. O. C. BELFIELD, Registrar and Secretary to the Medical Faculty.

MR. JOHN A. BACON, Clerk and Curator of Buildings.

MISS JANE GREY ROGERS, Librarian,

MISS LILIAN ALICE COLLENS, Dean's Clerk and Stenographer.

ANNOUNCEMENT OF THE MEDICAL DEPARTMENT

1910-1911

ANNOUNCEMENT

This department was founded in 1834, as the Medical College of Louisiana; in 1847 it became the Medical Department of the University of Louisiana, and in 1884, the Medical Department of The Tulane University of Louisiana. It is the oldest Medical College in the Southwest and has the greatest number of Alumni. To May, 1910, there have been graduated 4321 in Medicine.

The Seventy-seventh Annual Session Opens **SATURDAY, OCTOBER 1, 1910.**

CHANGES AND IMPROVEMENTS

Since the publication of the last Catalogue, the following changes have taken place in the Medical Department.

Dr. Irving Hardesty has been elected Professor of Anatomy.

Dr. H. B. Gessner, Professor in the Miles Laboratory of Operative Surgery and of Clinical Surgery.

Dr. George S. Bel, Professor of Clinical Medicine.

Dr. John Smyth, Associate Professor in the Laboratory of Minor Surgery and Instructor of Clinical Surgery.

Dr. Philip Frank has been appointed Demonstrator and Instructor of Physiology.

Dr. Frazer B. Gurd, Demonstrator and Instructor of Pathology and Bacteriology.

Dr. Maurice J. Couret, Demonstrator and Instructor of Pathology and Bacteriology.

Dr. William H. Harris has been appointed Assistant Demonstrator in the Laboratory of Bacteriology and Clinical Assistant in Medicine.

Dr. Victor C. Smith, has been appointed Demonstrator and Clinical Assistant in Ophthalmology.

Dr. L. R. DeBuys has been appointed Lecturer and Instructor on Diseases of Children.

Dr. Lionel L. Cazenavette has been appointed Lecturer and Instructor on Diseases of the Nervous System.

Dr. J. P. Leake, Clinical Instructor of Otology, Rhinology and Laryngology.

Dr. Isidore Cohn, Assistant Demonstrator in the Laboratory of Minor Surgery.

Dr. Jerome E. Landry, Instructor of Therapeutics and Clinical Medicine.

Dr. Allan A. Kennedy, Clinical Assistant in Otology, Rhinology and Laryngology.

Dr. W. T. Patton, Clinical Assistant in Medicine and Assistant in Laboratory of Clinical Medicine.

Dr. C. G. Cole, Clinical Assistant in Gynecology.

Dr. John G. Gage, Assistant in Medicine.

Dr. C. N. Chavigny and Dr. Peter B. Salatich, Clinical Instructors in Obstetrics.

Dr. Clark H. Rice, Instructor in Diseases of Children.

Dr. Samuel Logan, Assistant in Venereal and Genito-Urinary Diseases.

Dr. L. M. Thomason, Assistant in Diseases of Children.

Dr. Robert C. Finlay, Clinical Assistant in Diseases of the Skin.

Dr. W. Lassiter, Clinical Assistant in Surgery.

Dr. J. T. O. Ferrall, Assistant Demonstrator of Pathology and Bacteriology.

Dr. A. H. Cook, Demonstrator of Histology.

Dr. Ansel M. Caine, Assistant Clinical Instructor in Surgery.

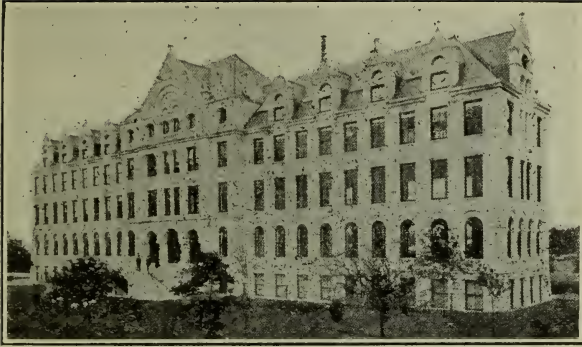
J. F. Points, M. D., Clinical Assistant in Obstetrics.

H. W. Kostmayer, A. B., M. D., Clinical Assistant in Gynecology.

Mr. Lloyd Arnold, Prosector in Anatomy.

Mr. H. N. T. Nichols, Assistant in Anatomy.

Mr. John W. Faulk and Mr. C. A. McWilliams, Student-Assistants in Anatomy.



RICHARDSON MEMORIAL

and

NEW CHEMISTRY BUILDING

The New Richardson Memorial Building on the Tulane Campus, provides the laboratories and equipment for all the teaching of the first two years, excepting for Chemistry, which will be taught in the laboratories of the new Richardson Chemistry Building, also located on the Tulane Campus, now doubled in capacity. The facilities afforded for the thorough instruction of students in their first two years in medicine will now be materially advanced and the opportunities in entire accord with the highest demands of modern medical education.



HUTCHINSON MEMORIAL

The Josephine Hutchinson Memorial Building on Canal Street, with its numerous laboratories and lecture halls provides every facili-

ty for the teaching of the last two years. This building is located within two blocks of the Charity Hospital where the clinical instruction is conducted.



DORMITORIES FOR MEDICAL STUDENTS

Dormitories for a limited number of medical students have been provided for the students in the first two years, who will have the surroundings of a residential neighborhood and, besides, the contact with the students of the Academic Department, thus broadening their education and college spirit.

LIBRARY

The library of the Medical Department is conveniently arranged for reference, with about 5,000 valuable books and over 2,500 pamphlets, as well as an excellent file of the current medical journals. Additions are being constantly made to this valuable adjunct of medical education.

Since the publication of the last announcement a large number of books, pamphlets, journals, etc., have been donated by the following:

American Dermatological Society; American Proctologic Society; Dr. P. E. Archinard; Mr. Geo. Augustin; Dr. C. C. Bass; Bellevue and Allied Hospitals; Estate of Dr. W. P. Brewer; Dr. W. W. Butterworth; Dr. S. E. Chaille; Charity Hospital; City of New York Hospital; Citizens Health Committee of San Francisco; College of Phpsi-

cians and Ssrgeons of Baltimore; Consulado de Cuba; Dr. Geo. Dock; Dr. E. Dreifus; Dr. Isadore Dyer; Dr. W. A. Evans; Hon. E. H. Farrar; Dr. J. T. Halsey; Hy. Phipps Institute; International Journal of Surgery; Dr. A. Jacobi; Dr. W. J. Robinson; Lakside Hospital; Louisiana State Board of Health; Dr. Urban Maes; J. A. Majors & Co.; Massachusettes General Hospital; Michigan State Board of Health; Missouri State Board of Health; New York Obstetrical Society; Dr L. Sexton; Dr. E. Souchon. Tokyo Kaiserlich Japanischeu Universitat; United States; Mr. J. H. Vaughan; Dr. Frank Watson; Dr. J. D. Weis; Dr. R. Lyons; Dr. R. Matas; Dr. S. K. Simon; Dr. R. Van Wart; Dr. F. E. Lamothe.

Permanent Loans: Dr. E. Dreifus; Dr. J. B. Elliott, Jr.; Dr. C. L. Eshleemann; Dr. J. B. Guthrie; Dr. J. T. Halsey; Dr. W. W. Kohlman; Dr. I. I. Lemann; Dr. J. D. Weis.

SYNOPSIS OF INSTRUCTION

Students of the first two years are taught in the atmosphere of the University Campus. This plan has been arrived at through the recognition of like methods at some of the best institutions in the country, and because of the logical merits of establishing a foundation in the primary branches of medicine, before the Clinical Instruction is undertaken.

The faculty solicits the special attention, not only of students, but also of graduates of other colleges, to the unequaled clinical and anatomical advantages of the Medical Department as well as the facilities for research in all of the laboratory branches.

It is universally admitted that, without abundant laboratory and clinical material, no medical school, however numerous or eloquent its professors, can possibly fit its pupils for practical professional life. It is scarcely necessary to state that it is only in large cities that such advantages can be procured, but it is of paramount importance that the opportunities there afforded should be properly utilized; that the students should be required, under the direction of the teacher, to examine patients for themselves, to keep records of cases, to note daily changes which may occur, and thus acquaint themselves, by personal observation, with the progress and termination of diseases and accidents. The mere introduction of a patient into an amphitheater, and the discussion of his case by the professor in the presence of a class, is no substitute for bedside and clinical instruction, such as is supplied by the great Charity Hospital of New Orleans.

CHARITY HOSPITAL

The use of the wards of the great Charity Hospital of New Orleans, with over 1000 beds, annually occupied by from nine to ten thousand patients, and the use of two clinical buildings, with about 15,000 outdoor patients annually, have been given by the Legislature to the professors of the Medical Department of The Tulane University of Louisiana, for the practical instruction of its students, not only in all the divisions of medicine and surgery, but also in obstetrics and gynecology, as well as in pathology. Medical students are given access to the Charity Hospital without payment of any hospital fees, and enjoy far better opportunities for the study of diseases therein than are usually possible in the hospitals of other cities. For the study of diseases of the South and also of exotic types of conditions of tropical origin there is no field comparable to the wards of this hospital. Between the Josephine Hutchinson Memorial Building of the Medical Department and the Charity Hospital there are only two squares, which distance is readily walked in three minutes.

The following summary of the hospital services during 1909 will give some idea of the wealth of material:

During the year there were admitted 9,576 patients, and, including those remaining, 10,358 received treatment. Of the admissions, 5,850 were whites, 3,726 colored. Of the whites 3,403 were adult males, 1,634 adult females, 467 boys and 346 girls. Of the colored, 2,255 were adult males, 1,248, adult females, 137 boys and 86 girls. In the Outdoor Clinic for Men and Boys, 12,401 were treated.

The total number in the Clinics numbered 17,443 and of consultations, 74,585. 15,763 specimens of various kinds were examined in the Department of Pathology. 587 cases were treated for rabies in the Pasteur Clinic. The total number of Ambulance calls was 1,510. Of accident cases 7,463, of operations, 3,208, of obstetrical cases, 320. The total number of deaths was 1,310, making a gross death rate of 13 per cent. and a net death rate of a little less than 8.5 per cent. after deducting the deaths occurring within forty-eight hours.

In the Charity Hospital the distribution of services is as follows: eighteen wards for females; thirty-four wards for males; nine for children. Of the sixty wards, twenty-five are medical; fifteen surgical; two obstetrical; three gynecological; six for pediatrics; three for diseases of the nervous system; two for genito-urinary and venereal diseases; two for diseases of the eye

and for diseases of the ear, nose, and throat; two for diseases of the skin. *All of these wards are accessible to students* under the direction of the teaching staff.

Each of the two clinical buildings for outdoor patients is subdivided into fourteen different services, and all of these are alike in both buildings, namely: for medical cases, for nervous diseases, for surgical cases; for genito-urinary and venereal diseases; for skin diseases; for diseases of the eye; of the ear, nose, and throat, and for cases of dentistry. In addition to these fourteen services the Men and Boys' Clinic has a surgical service for boys, and the Women and Children's Clinic has a gynecological service. This institution has all the provisions for a pediatric service which is likewise largely attended by the students and the teaching staff. In addition there is a Pasteur Clinic in the male clinic for all races, ages and sexes.

MILLIKEN MEMORIAL

The advantages of the Charity Hospital, as one of the greatest schools in the world for practical instruction, were further increased in 1899 by the addition of the Milliken Memorial, a model building for the accommodation of two hundred sick children.

THE DELGADO MEMORIAL

The Delgado Memorial was completed and formally dedicated at the Charity Hospital with appropriate ceremonies on December 19th, 1908, and was opened for the reception of patients on April 19th, 1909. This beautiful building was "erected in loving memory of Samuel and Virginia Delgado, for the relief of the suffering poor of both sexes who may be benefited by the Science and Art of Surgery." The Memorial occupies a conspicuous place on the grounds of the Charity Hospital with the entrance facing on Tulane Avenue. It is a five story building, strictly fire proof. It was erected and equipped at a cost of 200,000 dollars.

The honor of naming the two chief operating rooms the "Ernest S. Lewis" and the "Rudolph Matas" operating rooms was conferred by Mr. Delgado on these two members of the Tulane Faculty, with the concurrence and approval of the Board of Administrators of the Hospital, not only as an expression of his personal friendship for these gentlemen, but of his appreciation of their long service as visiting surgeons and teachers at the Charity Hospital.

The greatest significance is attached to Mr. Delgado's generous donation from the point of view of medical education and progress

and his will specifically stated that the direction of the Memorial shall always be under the control of the heads of the departments of Surgery and Gynecology in Tulane, and for these departments the building was erected and arranged.

The professors and clinical instructors are attending physicians or surgeons of the hospital and visit their wards and clinics daily, accompanied by the students, who are thus brought into immediate contact with the sick and wounded and are taught practically, auscultation and percussion, analysis of urine, the use of the microscope in diagnosis, the application of dressings, etc. Surgical operations are performed and lectures delivered upon selected cases in the amphitheaters of the hospital.

Special clinical instruction is given to all students of the third and fourth years, who are for this purpose divided into sections and assigned to the professors and clinical instructors in charge of wards and outdoor clinics of the hospital. The classes thus formed interchange courses so that all students enjoy equal advantages. Competent chiefs of clinics aid the clinical teachers in developing this system of instruction.

Lectures on all branches where demonstrations of cases are practicable and of service, will be delivered in the Hospital amphitheaters daily, during the morning hours.

HOSPITAL INTERNES

CHARITY HOSPITAL

The administrators of the Charity Hospital elect annually, by competitive examinations in March or April, twenty-six resident students from the fourth year class, on approval of the Medical Department of the Tulane University of Louisiana. These students are entitled to board and lodging in the institution free of charge and enjoy many privileges and opportunities incident to a two years' incumbency.

TOURO INFIRMARY

Four internes, who must be graduates, are elected annually by the Administrators of the Touro Infirmary.

This institution has recently been entirely rebuilt with modern construction in every particular and is representative of the highest type of hospital detail and equipment in all of its departments. It is non-sectarian in its charity, though the administration is directed by prom-

inent members of the Jewish community. The visiting staff is derived from the best available men in all branches. and the Faculty of the Medical Department of Tulane is well represented.

Through the courtesy of the medical staff, on regular days surgical operations and other clinics at Touro Infirmary are witnessed by groups of men from the fourth year class, assigned from time to time by the Dean of the Medical Department.

REQUIREMENTS FOR ADMISSION

Every student before being matriculated for the first course of medical lectures must possess the following qualifications:

He must submit a certificate of good moral character and of fitness to enter upon the study of medicine, such certificate to be signed by a reputable physician.

The requirements for admission to the Medical Department of the Tulane University of Louisiana, have been placed upon a basis of "units" as follows:

1) A "unit" is a subject pursued through one school year, with not less than five recitation periods per week.

2) Fourteen Carnegie units are required for full entrance.

3) Applicants presenting 12 units may be admitted to partial standing, with the condition that they make up the deficiencies.

4) Applicants presenting less than 12 units will not be received.

5) All applicants for admission must offer three units in English, three in Mathematics, and the additional units selected among the subjects here listed:

6)

1. English Composition	2	16. Physics	I
2. English Literature	I or 2	17. Chemistry	I
3. Elementary Algebra	2	18. Biology	I
4. Plane Geometry	I	19. Botany	I
5. Solid Geometry	$\frac{1}{2}$	20. Zoology	I
6. Trigonometry	$\frac{1}{2}$	21. Physiology	I
7. Latin	2, 3 or 4	22. Physiography	I
8. Greek	2 or 3	23. Freehand Drawing	I
9. French	2 or 3	24. Mechanical Drawing	$\frac{1}{2}$
10. Spanish	I or 2	25. Wood-working	$\frac{1}{2}$
11. German	2 or 3	26. Foundry Work	$\frac{1}{2}$
12. Ancient History	I	27. Forge Work	$\frac{1}{2}$
13. Med. and Mod. Hist.	I	28. Machine Tool Practice	I
14. English History	I	29. Comparative Anatomy	I
15. American History	I	30. Pharmacy	I or 2

7) No entrance credit will be allowed for any subject pursued for less than one school year.

8) Certificates for work done in recognized preparatory schools will be accepted only in the case of *graduates* of those schools. Applicants for admission who *have not graduated* from a recognized school will be admitted only upon examination.

9) Applicants for admission presenting certified evidence of admission to the Freshman class of a standard university or college may submit such evidence instead of a certificate of graduation as above and this will be accepted in lieu of examination.

10) Students are admitted as partial-course students or as special students and may be credited with work accomplished, while engaged in preparation for the fulfillment of the above requirements. Such students must successfully complete *all work undertaken each term*, otherwise they shall be dropped for deficiencies and may enter again only by fulfilling the regular entrance requirements by certificate or entrance examination.

11) Special students, entering without examination or certificate, must satisfy all entrance requirements before they may become regular.

12) The entrance examinations in all departments will be held during the week preceding September 30, at the University. Candidates will apply to the Dean for schedule of entrance examinations.

13) Blank forms showing entrance requirements in detail will be furnished on request to the Dean.

NEW REQUIREMENTS FOR 1910-1911

BEGINNING WITH THE SESSION OF 1910-1911, ALL STUDENTS TO BE ADMITTED MUST SUBMIT EVIDENCE OF ONE YEAR'S STUDY IN CHEMISTRY, BIOLOGY, PHYSICS, AND ONE LANGUAGE, OTHER THAN ENGLISH, IN ADDITION TO THE REQUIREMENTS ABOVE STATED.

REQUIREMENTS FOR ADVANCED GRADES

A set of tickets, showing that the holder has attended one full course of medical lectures in any regular, recognized medical college, is essential to matriculating for a second course of lectures; and every student, prior to matriculating for a third or fourth course of lectures, shall be required to show by similar evidence that he has previously taken two or three courses of lectures. To be credited with a full course, at least eighty per cent of the session must have been attended.

Students from other colleges entering the second, third, or fourth year will be required to show evidence that the entrance require-

ments of the college at which they commenced the study of medicine were not less than the requirements of this department at the same time.

Any student, who, during his courses in this college, convicts himself of defective general education, shall be required to remove this disability before he is graduated.

SYNOPSIS—STUDIES AND EXAMINATIONS

The full course of Lectures and all Laboratory Courses will begin Saturday, October 1, 1910.

First Year (a)—Medical physics, chemistry and toxicology, anatomy, chemistry, histology, practical anatomy (dissecting), and minor surgery in their laboratories.

(b) Examinations will be required during or at the close of the first year on branches taught in this year, embraced by the departments of chemistry, anatomy and histology. Records of satisfactory attendance and knowledge in the laboratories of chemistry, of histology, of practical anatomy, and of minor surgery will also be required.

Second Year (a)—Chemistry, toxicology, physiological and medical chemistry, anatomy, physiology, materia medica and pharmacology with their laboratories; physical diagnosis, and minor surgery, in their laboratories; practical anatomy, pathology, bacteriology, and physiological and medical chemistry, in these laboratories.

(b) Examinations will be required during or at the close of the second year on the branches taught in this year, embraced by the departments of chemistry, anatomy, physiology, of materia medica and pharmacology, physical diagnosis, pathology and bacteriology and of minor surgery (advanced). Records of satisfactory knowledge and attendance in the laboratories of practical anatomy, of chemistry, of physiology, pharmacology, and of pathology and bacteriology, will also be required.

(c) Examinations at the close of the second year on the "primary branches"—chemistry anatomy, physiology, materia medica and pharmacology—will be final, if satisfactory, and, if not, a second trial will be granted at the next Fall condition examination. However, the professors of chemistry, anatomy, physiology, pathology, pharmacology, and practical anatomy will not vote at the close of the fourth year, in favor of any candidate for graduation, unless he has satisfactorily completed the required courses in the laboratories

of chemistry, histology, practical anatomy, physiology, pharmacology, pathology and bacteriology.

(*d*) Students from other colleges, who may enter the second year of this college, will be conditioned on all the studies and examinations of the first year that they may have failed to pass at the medical college previously attended and all but two of these conditions must be removed before they will be allowed to go on with Second Year work.

Third Year (*a*)—Theory and principles of medicine, of surgery, of obstetrics and gynecology (including obstetrical manipulations in normal labor), and clinical instruction in those branches, gross pathological anatomy, physical diagnosis; therapeutics; clinical medicine, venereal and genito-urinary diseases, diseases of children, diseases of the skin, hygiene, and pathology and clinical microscopy in these two laboratories.

(*b*) Examinations will be required during or at the close of the third year on the branches taught in this year and embraced by the departments of the practice of medicine, of surgery, of obstetrics, of diseases of children, diseases of the skin, of pathological anatomy and of therapeutics, including clinical medicine, physical diagnosis, hygiene, venereal and genito-urinary diseases. Records of satisfactory attendance and knowledge from the laboratories of pathology and of clinical medicine will be also required.

(*c*) Students from other colleges entering the third year will be conditioned on the primary branches — chemistry, anatomy, physiology and materia medica and pharmacology. (Exceptions to this rule will be made for students entering from the colleges listed below, and who present evidence, duly certified, of having passed these branches at these institutions). They will also be conditioned on the following branches, unless they submit satisfactory evidence that they have completed them at other medical colleges, viz: Minor surgery, physical diagnosis, and all the laboratory courses of the first and second years.

Fourth Year (*a*)—The practice of medicine, of surgery, of obstetrics and gynecology (including obstetrical manipulations), of therapeutics, and clinical instruction in those branches, diseases of the nervous system, of children, of the skin, and of the eye, ear, nose, and throat, orthopedics, medical jurisprudence, pathology, and operative surgery in its special laboratory.

(*b*) Examinations will be required during or at the close of the fourth year, on the branches taught in this year, embraced by the departments of the practice of medicine, of surgery, of obstetrics, of

pathology, of gynecology, of the diseases of children, of the nervous system, of the skin, of the eye, of the ear, nose, and throat, of orthopedics and of medical jurisprudence. A record of satisfactory attendance and knowledge from the laboratory of operative surgery will also be required.

(c) Students from other colleges entering the fourth year will be conditioned on the primary branches — chemistry, anatomy, physiology, materia medica and pharmacology. (Exceptions to this rule will be made for students entering from the colleges listed below, and who present evidence, duly certified, of having passed these branches at these institutions). They will also be conditioned on therapeutics, clinical medicine, surgery, obstetrics and gynecology, diseases of children, gross pathology, minor surgery, physical diagnosis, skin, venereal and genito-urinary diseases, and the laboratory courses of the first three years unless they submit satisfactory evidence of having attended these branches and laboratory courses at other medical colleges.

REMOVAL OF CONDITIONS

Students of the first three years who have attended any session and failed to pass satisfactorily the examinations required for that session, and students from other colleges who may be conditioned at entrance, may stand the examinations for the removal of such conditions, at the Fall examinations held for that purpose, between September 15 and 30, and *before the regular term* opens.

Any student carrying conditions in any *three or more* branches at the end of any year, *must remove all but two of these conditions* at the following Fall examinations before he will be permitted to pursue the succeeding year's work.

All students of the fourth year must remove all conditions previously established against them, *before they will be permitted to apply for graduation.* (See SUMMER SCHOOL, p. 24).

SCHEDULE OF CONDITION EXAMINATIONS

FALL OF 1910

	9 A. M.	3 P. M.
Thursday, Sept. 22	Pathology and Bacteriology	Minor Surgery
Friday, Sept. 23	Physical Diagnosis	Pharmacology
Saturday, Sept. 24	Clinical Medicine	Obstetrics and Gynecology
Monday, Sept. 26	Surgery	Venereal and Genito-Urinary Diseases
Tuesday, Sept. 27	Clinical Surgery	
Wednesday, Sept. 28	Anatomy	Histology
Thursday, Sept. 29	Chemistry	Physics
Friday, Sept. 30	Physiology	Hygiene

LIST OF COLLEGES RECOGNIZED FOR ADVANCED STANDING

Students entering the Medical Department of the Tulane University of Louisiana from Medical Schools in the following list who have satisfied the entrance requirements of this department and who present authentic evidence of having passed the branches of any one or all of the first three years, *as required at this institution*, will be credited with a passing grade on such and will not have to undergo further examinations on these branches as declared in this announcement. Students from colleges not listed will be required to conform to the rules as stated.

ALABAMA—University of Alabama.

CALIFORNIA. University of California, Medical Department, San Francisco. Leland Stanford, Jr., University, Palo Alto.

COLORADO. Denver and Gross College of Medicine, Denver. University of Colorado, Medical Department, Boulder.

CONNECTICUT. Yale University, Medical Department, New Haven.

DISTRICT OF COLUMBIA. George Washington University, Washington.

ILLINOIS. Northwestern University, Medical School, Chicago. Rush Medical College, Chicago. College of Physicians and Surgeons, Chicago.

INDIANA. Indiana University, School of Medicine, Bloomington and Indianapolis.

- IOWA. State University of Iowa, Iowa City.
- KANSAS. University of Kansas, School of Medicine, Kansas City.
- MAINE. Medical School of Maine, Portland.
- MARYLAND. Johns Hopkins Medical School, Baltimore. University of Maryland, Baltimore.
- MASSACHUSETTS. Harvard Medical School, Boston. Tuft's College Medical School, Boston.
- MICHIGAN. Detroit College of Medicine, Detroit. University of Michigan, Ann Arbor.
- MINNESOTA. University of Minnesota, Minneapolis.
- MISSISSIPPI. University of Mississippi, University. (First two years).
- MISSOURI. St. Louis University, Medical Department, St. Louis. Washington University, Medical Department, St. Louis. University of Missouri, Medical Department, Columbia.
- NEBRASKA. University of Nebraska, College of Medicine, Omaha.
- NEW HAMPSHIRE. Dartmouth Medical College, Hanover.
- NEW YORK. Albany Medical College, Albany. Columbia University, College of Physicians and Surgeons, New York City. Cornell University, Medical College, Ithaca and New York City. University and Bellevue Hospital Medical College, New York City. Syracuse University, Medical Department, Syracuse. University of Buffalo, Medical Department, Buffalo.
- NORTH CAROLINA. University of North Carolina, Chapel Hill. (First two years.) Wake Forest School of Medicine, Wake Forest. (First two years.)
- NORTH DAKOTA. University of North Dakota.
- OHIO. Western Reserve University, Medical Department, Cleveland. Starling-Ohio Medical College, Columbus. University of Cincinnati, Cincinnati.
- OKLAHOMA. University of Oklahoma, Medical Department, Norman.
- PENNSYLVANIA. University of Pennsylvania, Medical Department, Philadelphia. Jefferson Medical College, Philadelphia. Medico-Chirurgical College, Philadelphia.
- SOUTH DAKOTA. University of South Dakota.
- TENNESSEE. Vanderbilt University, Medical Department, Nashville.
- TEXAS. University of Texas, Medical Department, Galveston.
- UTAH. University of Utah, Department of Medicine, Salt Lake City.
- VERMONT. University of Vermont, Medical Department, Burlington.
- VIRGINIA. University of Virginia, Department of Medicine, Charlottesville. Medical College of Virginia, Richmond.
- WISCONSIN. University of Wisconsin, College of Medicine, Madison.
- (This list is subject to change in future publications of this department).*

VACATION STUDIES

During the intervals between the annual sessions, as well as during the sessions, the dissecting rooms and the Charity Hospital are open to students who have been duly registered and have paid the matriculation fee, \$5, for the next session; students are thus enabled to prosecute the practical studies of most importance throughout the year, especially anatomy, clinical medicine, surgery and the practical branches. (See SUMMER SCHOOL, below).

EXTERNE SERVICE AT CHARITY HOSPITAL AND TOURO INFIRMARY

During the summer months students who have satisfactorily completed their second and third years and who have registered for the next session may receive appointments as externes on recommendation of the Dean.

SUMMER SCHOOL OF MEDICINE

For several years the Medical Department of the Tulane University of Louisiana has provided instruction for students of this department, for intending students from other colleges and for graduates in medicine in the laboratory and clinical branches embraced in the teaching divisions of the department.

While a considerable part of the work of this school relates to the subjects and courses covered in the regular curriculum, and is intended for purposes of review, the Summer School has always offered advanced work, including research, for students and physicians desiring such.

Beginning with 1910, the Summer School was regularly established, and, according to the demand for the various divisions of instruction afforded, the course will be expanded and lengthened hereafter.

All students in the Summer School are required to register at the office of the Dean of the Tulane Medical Department, at the Hutchinson Memorial, No. 1551 Canal Street.

The registration fee for each student is \$5. This fee will entitle each matriculant to visit the Charity Hospital and its clinics.

The registration fee of \$5, paid to the Summer School, will also register the student for the regular college term, beginning October 1, 1910. Due notice is required, stating the intention of the student to take advantage of this double registration for one fee. **No student will be registered for the regular term without such notice.**

While the summer courses offered in this school are intended for review in advanced work, credit will be given wherever the work in any one department may justify it, and upon the recommendation of the head of the department in which the instruction is given.

No examinations are permitted in the Summer School which can apply to the regular curriculum for the coming year. Final examinations in all branches are given during the regular session, which begins October 1st.

Conditioned students in the Medical Department of Tulane may satisfy their conditions by courses in the Summer School covering deficiencies, and may be examined for such conditions by the heads of departments, who may pass upon the same at the conclusion of the summer course. Grades obtained in such examinations will be duly credited.

The Summer School begins annually the first Monday after commencement. (See CALENDAR, p. 2).

REQUIREMENTS FOR GRADUATION

Every candidate for graduation must be of good moral character, which includes good conduct while a student of the Medical Department, must have attained the age of twenty-one years, and must have complied with all the educational requirements.

He must have attended, in a regular and reputable medical college at least 80 per cent. of each of four full courses of lectures, of not less than thirty weeks each in four separate years; and the last of these courses must have been in this institution.

Candidates for graduation must have taken (1) two annual courses of clinical medicine; (2) the required courses of practical anatomy (dissecting); (3) two courses in a chemical laboratory: one of general chemistry and one of physiological and medical chemistry; (4) prescribed courses of histology and of pathology, bacteriology, and clinical medicine; (5) prescribed course in the laboratory of physiology; (6) one course in the laboratory of pharmacology; and (7) one course in a laboratory of operative surgery. They must submit evidence of satisfactory attendance and knowledge of all these laboratory courses.

Every candidate for graduation must have paid all college dues, including the graduation fee, and must pass satisfactory examinations before the members of the faculty.

A candidate for graduation, who fails to pass satisfactory final examinations after three annual trials, will not be examined again.

ATTENDANCE ON MORE THAN FOUR ANNUAL COURSES

Students who have attended and paid for all of the required full courses, the last of which was in this institution, are thereafter entitled to attend the lectures and the hospital upon payment of matriculation and laboratory fees.

FEES

The tuition fees of this institution are now \$620 for the four-year course. (Matriculation, breakage and graduation fees not included.) 1st year \$150, 2nd year \$150, 3rd year \$160, 4th year \$160.

The obligatory charge for dissecting material will not exceed \$5 in any one session.

Considering the exceptional advantages for practical instruction in hospital and laboratories and the constant care and labor bestowed upon the pupils, the charges are as low as are compatible with the superior advantages given.

The faculty reserves the right to increase the above fees for the four-year course after the session of 1910-11.

All fees are payable *on admission*, except the graduation fee of \$30, which is not accepted earlier than January 1, nor later than March 1. Ten dollars of this fee will be retained in the case of candidates for graduation who may fail to be graduated.

MATRICULATION FEE

Every person, whether student or graduate, admitted to the privileges of this department, must pay a matriculation or registration fee of \$5 for every session or part of session he may attend; and he will not be entitled to admission to either College or Hospital until registered.

ATHLETIC FEE

An athletic fee of \$5 will be charged all students in the first two years, for the services of gymnasium, etc.

BREAKAGE FEES

A breakage fee of \$5 must be deposited for each course in the laboratories of chemistry, physiology, pharmacology, pathology and bacteriology, and clinical microscopy to reimburse for breakage and needless injuries inflicted on the laboratories and their contents. Any unused part of such fee will be refunded on proper demand at the end of each session.

Graduates of this College and all medical students who have paid for all of the required full courses, the last of which was in this institution, are thereafter entitled to attend the lectures and the hospital without charge for the professors' fees, but they will be charged the matriculation fee and the fees for all laboratory courses they may voluntarily attend.

The fees for regular laboratory courses taken apart from regular courses are uniformly fixed at \$15. Special laboratory courses, experimental or research, may be arranged in conjunction with regular courses, at special rates.

Students who do not attend full courses, but only partial or special courses, must pay for the tickets of the professors whom they may attend, \$20 each.

Graduates of other recognized medical colleges, who are not candidates for the M. D. degree of this college, must pay, in order to attend all lectures and the hospital during a first session, the annual matriculation fee, \$5, and an additional fee of \$75. For regular any laboratory course taken the fee is specified above. For any subsequent session the \$75 fee is not charged. If candidates for the M. D. degree, such student physicians must pay one-half the regular fees and in addition the matriculation fee of \$5 and the fee of \$30 for graduation, examinations, etc., laboratory fees as above.

Every graduate of this College must have passed the examinations and have fulfilled the requirements of the fourth year, must have attended all of the laboratory courses required and must have paid the graduation fee, \$30.

REFUND OF FEES

Students who may withdraw for satisfactory reasons during the session and before March 1st, will be refunded the unused balance of the fees for the session. *Prompt notice at time of withdrawal is required to make this effective.* No refund will be made after March 1st.

GENERAL INFORMATION

Information about houses for boarding and lodging may be obtained from the Registrar or Clerk. The price usually paid by students varies from \$16 to \$22 per month. A list of desirable boarding houses is prepared shortly before the opening of the session and may be consulted by students on their arrival at the college.

Students in the first two years who are non-residents will be required



CHARITY HOSPITAL, BUILDINGS.

to reside in the dormitories on the Campus unless especially excused by the Dean of the Medical Department.

Applications for dormitory rooms should be made as early as possible, before the term opens, to the Secretary, Gibson Hall, Tulane University. Application should be accompanied by a deposit of five dollars to secure accommodation.

On request to the Dean's office parents or guardians will be furnished with students' record, at the end of each session.

Students receiving remittances from home are advised to obtain them in checks on New Orleans banks or in Post Office or Express money orders.

Correspondence intended for students of this department in the first and second years should be addressed "Richardson Memorial, Tulane Campus," New Orleans, La.; for students of third and fourth years, "Hutchinson Memorial", 1551 Canal St., New Orleans, La.

For any additional information address:

DR. ISADORE DYER, DEAN,
MEDICAL DEPARTMENT,
THE TULANE UNIVERSITY OF LOUISIANA,
P. O. DRAWER 261, NEW ORLEANS, LA.



CHARITY HOSPITAL BUILDINGS

COURSES OF INSTRUCTION

DEPARTMENT OF ANATOMY

PROFESSOR IRVING HARDESTY, A. B., Ph. D. (Anatomy, Histology, etc.)

ASSOCIATE PROFESSOR ROBERT BENNETT BEAN, M. D.

ASSOCIATE PROFESSOR HENRY BAYON, M. D.

Dr. M. H. McGuire, Instructor in Anatomy.

Mr. H. Hays Bullard, Instructor in Anatomy.

Dr. A. H. Cook, Instructor in Anatomy.

Mr. H. N. T. Nicholls, Assistant in Anatomy.

Mr. John W. Faulk, Student-Assistant in Anatomy.

Mr. C. A. McWilliams, Student-Assistant.

Mr. Lloyd Arnold, Prosecutor in Anatomy.

Mr. Frank Linstaedt, Technical Assistant in Anatomy.

LABORATORIES AND MUSEUM OF ANATOMY

The work in this department covers both Gross and Microscopic Anatomy. The Laboratories for both divisions of the work and the Museum of Anatomy are in the Richard-



MUSEUM OF ANATOMY

son Memorial Building. The laboratories are commodious, especially adapted and well equipped for the work and new equipment is being added. The museum contains a large collection of actual dissections made by the Curator of the Museum. Professor Emeritus Edmond Souchon, who has devoted his time gratis to the Medical Department and who has made this remarkable and useful adjunct to the teaching of Anatomy.

GROSS OR SYSTEMATIC HUMAN ANATOMY

The courses in Gross Anatomy are offered in practical work almost entirely. Independent work on the part of the student is encouraged and stimulated as far as possible. There are no formal lectures accompanying dissection. Short laboratory talks and explanatory demonstrations will be given to groups of students in the dissecting room from time to time as occasion may require and the student at the table is subject to questions aimed at testing the thoroughness of his work. Short conferences and quizzes are held at intervals with sections of the class. Every effort is made to induce the student to acquire actual knowledge of the construction of the body, visual images rather than word pictures of the various structures and their interrelationships. Aid in grasping topographical relations will be afforded by models, wet preparations and serial sections of the body and, after the required dissections are com-

pleted, a shorter course in Topographical Anatomy will be offered as a means of summarizing and systematizing the entire work.

After the necessary work upon the entire body by the group of students to which it is assigned, the body is divided into the usual parts which are, in turn, assigned for complete dissection. Formal quizzes are given only at the completion of the dissection of a part assigned the student. The subject of Osteology and Arthrology is offered accompanying dissection, during the first year as both a laboratory and quiz course, at the end of which the student is given a formal examination covering the subject. At the completion of the Topographical Anatomy, an examination is given covering the anatomy of the body.



LABORATORY OF ANATOMY

The work in Gross Anatomy falls into the following divisions:

1. *Osteology and Arthrology.* (Mr. Bullard.) Students are provided with bones which they may take to their rooms. Accurate drawings of the typical bones will be required, which must be fully labelled and handed in for correction. During the first term of the first year the class will meet twice a week in laboratory and lecture room.

2. *Arm and Thorax.* (Dr. Bean and Assistants.) 150 hours during the first year.

3. *Head and Neck.* (Dr. Bean and Assistants.) 150 hours during the first year.

4. *Leg, Pelvis and Abdominal Viscera.* (Dr. Bean and Assistants.) 150 hours during the first year.

5. *Topographical and Applied Anatomy.* (Dr. Bayon and Assistants.) The intact body, serial sections of the body, models and special dissections will be used in this course with the special intent to enable the student to become more familiar with structural interrelations and to assemble and systematize information obtained in preceding dissections. Sketches of the sections are required, labelled as to locality and the names of the structures represented, and, from the sections and sketches, the student is asked to construct a projection of the head and trunk, with the principal organs in position. Open to students who have satisfactorily dissected the entire body. Two laboratory periods (6 hours) and two lectures a week, second term of second year.

MICROSCOPIC ANATOMY

In this work the various tissues and organs of the body are studied from both the embryological and anatomical points of view, emphasizing their differentiation and elaboration from the developmental into the adult form and their structural peculiarities and gradations. In order to bridge the usual gap between gross and microscopic anatomy, the study of a tissue or organ is frequently begun with the examination of material in the fresh state—using teasing methods and free-hand sections. The more detailed studies are made from specimens prepared by methods designed to show their distinguishing microscopic features. The routine sections are prepared by the Technical Assistant of the department and are only mounted by the student. A small experience is afforded in the use of technical methods but not enough to thoroughly familiarize the student with the details of the different methods employed in the preparation of tissues for study. Drawings of the preparations under the microscope are required and, wherever possible, from preparations of human material. On the completion of a group of closely related structures, the student is required to hand in his drawings covering that group, neatly mounted in correct sequence and fully labelled as to the subject and detailed structures shown. The drawings are criticised and returned.

6. *Histology.* (Professor Hardesty and Assistants). Here is considered the anatomy of the cell, its varieties of form, the processes of its proliferation, and its differentiation into specialized types. Then

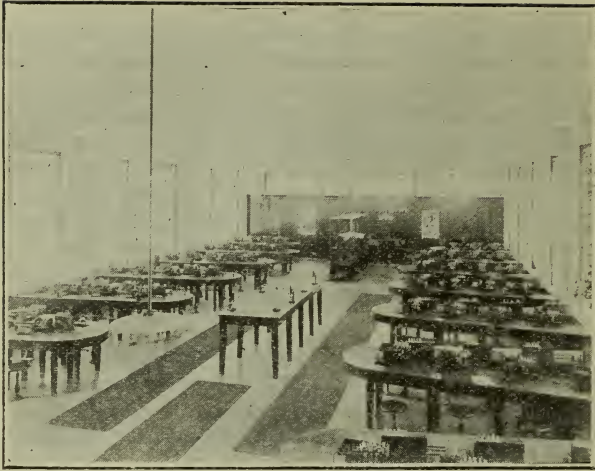
follows the detailed study of the four fundamental tissues, their varieties as composed of cells and cell products and as derived from one or the other of the primary germ layers. First year, two laboratory periods (6 hours) and two lectures per week for first term.

7. *Microscopic Organology*. (Professor Hardesty and Assistants). The various organs are considered as to their form and the arrangement, number and variety of the fundamental tissues composing them, and as to their structural relations in the apparatuses they comprise. The studies are usually begun with the observation *in situ* of a group of organs comprising an apparatus or system. First year, two laboratory periods (6 hours) and two lectures per week for second term. A satisfactory knowledge of Histology (course 6) is prerequisite to this course.

8. *Neurology*. (Professor Hardesty and Assistants). This course is especially devoted to the macroscopic and microscopic architecture of the central nervous system and organs of special sense. The neurone, neuroepithelium etc., studied in Histology, are considered as they take part in the construction of the nervous apparatus with especial effort toward tracing the origin, termination, course and arrangement of the different pathways of nerve impulses. Attention is given to the development and growth of the nervous system. Second year, two laboratory periods (6 hours) and two lectures per week for first term.

9. *Special Anatomy of the Auditory and Optic Apparatuses*. (Professor Hardesty.) This course is offered primarily for graduate students, but is elective by others especially interested in the subject and qualified to take it. It will deal with both the gross anatomy and detailed microscopic structure of the parts comprising the two sense organs mentioned and, in addition, will consider their pathways, connections and relationships within the brain. Four hours a week for one term. Hours will be arranged to suit applicants.

10. *Review Course in Gross Anatomy*. (Dr. Bean). A study-room course is offered primarily for practitioners of medicine, but also for upper classmen who have completed the required work in dissection. It will consist of the study of museum specimens, wet preparations and sections of the body in the possession of the Department of Anatomy. No credit toward the degree of Doctor of Medicine is given for this course. Hours may be arranged to suit applicants.



LABORATORY OF HISTOLOGY.

RESEARCH IN ANATOMY

Advanced students of Anatomy and graduates sufficiently qualified are urged to undertake the investigation of original problems under the direction of the head of the department and members of the staff. Opportunity is given to gain experience in special histological technic and in the construction of papers for publication. Results meriting it will be published. Hours arranged to suit applicants.

Text-Books: *Gross Anatomy*—Piersol; Cunningham (3rd edition); Morris (4th edition); Atlases of Toldt; Spalteholz and Sabotta-McMurrich; Campbell's *Surgical Anatomy*; Gray (Da Costa and Spitzka); Cunningham's *Manual*; Barker's *Manual*.

Microscopical Anatomy—Stohr (Lewis); Bailey; Shafer's *Essentials* (7th edition); Huber; Hardesty's *Guide*; appropriate parts of Quain (11th edition) and Morris (4th edition), and the atlases used in *Gross Anatomy*.

DEPARTMENT OF PHYSIOLOGY

PROFESSOR GUSTAV MANN, M. D. (Physiology).

Dr. Philip Frank, Demonstrator and Instructor.

Dr. Ralph Hopkins, Demonstrator and Instructor.

Assistant Demonstrator.

SYNOPSIS OF COURSE IN PHYSIOLOGY

This course includes both didactic and practical work. In addition to these, there is held each week a quiz-class and students are encouraged to come individually to the professor or his assistants whenever they meet with any difficulty.

The didactic course comprises: (1) Study of the cell: functions of the nucleus, centrosomes and cytoplasm; feeding of cells: osmosis and surface tension, secretion and excretion. Micro-chemical reactions; cell-division, fertilization; degenerative changes.

(2) Chemical Physiology: Chemistry of simple and complex sugars; of fatty acids and of amino acids and their synthesis into peptides. General consideration of fully formed protoplasm. Essential nature of protein compounds. Changes taking place in a starving animal; necessity of replenishing loss. General laws guiding the amount and nature of food. Organic and inorganic food-constituents and their interrelationship. Methods of determining the intake and the output of the body. Nitrogen and carbon equilibrium. Effect of muscular work on the intake and metabolism of food; effect of nervous excitability.

(3) Physical Chemistry: Surface tension in connection with absorption; relation of mass to surface; partial pressure and gas-tension. Electrolytes and colloids; coagulation.

(4) Mechanical physiology: Movements of alimentary canal and respiratory system; phenomena of circulation in rigid and elastic systems. The locomotor-system; points of gravity etc.

(5) Physiology of muscle and nerve.

(6) The central and peripheral nervous systems considered as reflex-mechanisms.

(7) Physiology from the biological point of view: (a) Alimentary Canal: Ferments and their action on foods; nervous and non-nervous control of glands and of alimentary canal. Immediate and ultimate fate of absorbed food-materials; (b) Respiratory System: Chemical changes; nervous mechanism. External and internal res-

piration. (*c*) Circulatory System; Functions of formed and unformed blood and lymph constituents; the quantity of blood in relation to rest of body; vaso-motor changes; (*d*) Integumentary System: Its relation to respiration, heart-regulation and excretion. Color changes in skin. (*e*) Symbiosis of Organs: Internal secretion. Chemical and nervous means of interrelating organs. (*f*) Urinary System: Origin of products excreted. Significance of qualitative and quantitative changes in the urine. (*g*) Reproductive System: Changes at different ages. Significance of fertilization. Physiology of the fetus and the growing child. (*h*) Nervous System: Development of mental processes. Significance of education.



LABORATORY OF PHYSIOLOGY

In addition to the above subjects dealt with in the didactic course, students will be afforded every facility of making themselves practically acquainted with those data on which the physiologist bases his deductions.

The microscope will be used for the study of living cells, to observe the circulation of the blood in the capillaries of amphibians and mammals, and the effect of the nervous system on circulation; to trace degenerations in lesions of the central nervous system; to observe the changes produced in gland-cells as the result of stimulation; to see dye-stuffs excreted by glands, such as the kidney; to follow up chan-

ges produced in marrow as the result of bleeding; in the nervous system as the result of activity. Surface tension phenomena and the effect of iso-tonic and non-isotonic solutions; micro-chemical tests for iron, etc. will also be dealt with.

Each student will further have full opportunities of making experiments in connection with the heart and the circulatory system; the nervous system and its effects on muscle and glands; of studying the changes produced in the air we breathe; of learning the methods of examination of the normal eye and throat.

Text-books—Howell's Physiology; Tigerstedt (translated by Murlin); Porter's Introduction to Physiology.

DEPARTMENT OF CHEMISTRY, INCLUDING PHYSICS, TOXICOLOGY AND MEDICAL JURISPRUDENCE

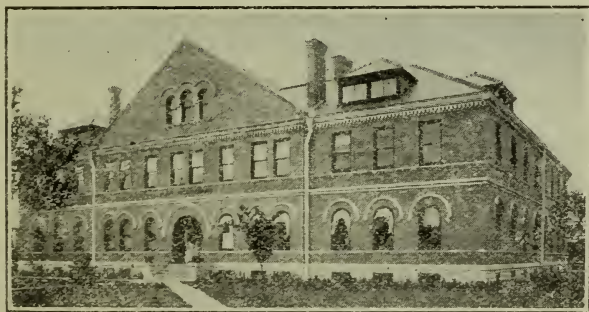
PROFESSOR A. L. METZ, M. D. (Chemistry and Medical Jurisprudence)

Head of the Department of Chemistry,
Tulane University of Louisiana.

————— Demonstrator and Instructor.

————— Assistant Demonstrator.

First Year *Inorganic Chemistry*—This course will cover the essentials of descriptive inorganic chemistry and its application to general medicine, but particularly to the studies of physiology, pathology, hygiene and toxicology. Five lectures per week during the first term.



RICHARDSON CHEMISTRY BUILDING

Organic Chemistry.—This course will deal with the discussion of the theory of the chemical constitution of the carbon compounds; a study of the aliphatic derivatives. The constitution and relationships of leading groups of the carbocyclic compounds.

The carbohydrates, fats and proteins are studied in considerable detail, and the more important facts of chemical physiology and pathology are brought to the attention of the student. Five lectures per week during the second term,

This work in organic chemistry is a proper and necessary introduction to the lecture and laboratory courses in physiological and clinical chemistry of the second year.

Laboratory.—Laboratory instruction will be given students of the first year two and a half hours a day in the second term for six days in the week for a period of fifteen weeks.

The instruction here given is in harmony with the chemical lectures of the first term, and is conducted in such a manner as to secure to the student practical familiarity with material, processes and reactions as these pertain to toxicology, incompatibilities in prescription work, and such subjects of his professional study which will be useful in his subsequent practice.

This course also includes Acidimetry and Alkalimetry with Volumetric Analysis.

Second Year *Physiological Chemistry.*—This course embraces briefly the facts and theories of organic chemistry. The study of the chemical relations of the starches, the sugars, the fats and the proteins, and the chemical changes occurring in plants and animals. The chemistry of salivary, gastric and intestinal digestion. The chemistry of the bile and blood.

Clinical Chemistry.—This course will include the chemistry of the excretions with special attention to the qualitative and quantitative analysis of stomach contents, urine, feces, milk, etc.

The lectures are devoted mainly to such topics of a general nature as can not well be brought up in the laboratory for direct experimentation and demonstration in the time allowed for the course.

Laboratory Work.—Students of the second year will be given two and a half hours a day for six days in the week for a period of fifteen weeks, in physiological and clinical chemistry.

Every student assigned to the chemical laboratories is fully supplied with all apparatus and chemicals, but there will be a charge for breakage and for unnecessary waste of material.

Medical

Jurisprudence

In this course the general relations of medicine to law are discussed, and the duties and rights of the medical expert as a witness, and advice given as to how he should conduct himself, with a study of the poisons most commonly needing attention, in their chemical and physiological aspects.

It is projected that hereafter this course shall be extended by special lectures from the teachers in the several departments as their subjects may be related to Legal Medicine.

Examinations are held at the end of the course (*Fourth Year*) and the questions are to be based on the lectures by Professor Metz and the other members of the Faculty.

Text-books—Witthaus, Manual of Chemistry, 6th edition; Rockwood, Manual of Physiological Chemistry; Hawk, Physiological Chemistry.

Reference Reading—Hammersten, Physiological Chemistry; Simon's Physiological Chemistry.

Medical Jurisprudence—Reese; Herold; Draper's Legal Medicine.

Reference Reading—Witthaus and Becker's Medical Jurisprudence; Peterson and Haines, Legal Medicine and Toxicology.

DEPARTMENT OF PHARMACOLOGY AND THERAPEUTICS

PROFESSOR J. T. HALSEY, M. D., (Pharmacology, Therapeutics and Clinical Medicine).

ASSOCIATE PROFESSOR GEORGE S. BROWN, M. D. (Pharmacy).

ASSOCIATE PROFESSOR J. BIRNEY GUTHRIE, M. D. (Therapeutics and Clinical Medicine).

Dr. Jerome E. Landry, Instructor in Materia Medica and Therapeutics.

PHARMACOLOGY AND THERAPEUTICS

The work in this department begins in the first term of the second year and continues until the end of the fourth year.

In the second year Materia Medica and Pharmacy, in so far as these subjects seem essential to the medical student, will be taught separately during the first term and in the second term in immediate connection with the courses on Experimental and Systematic Pharmacology. A limited amount of laboratory work in Pharmacy, (Professor Brown) will be offered as an optional course, but the required work

in this branch will consist of a few lectures and demonstrations in which the essential elements of pharmacy, for the physician will be taken up. General Materia Medica will be dealt with in a few lectures and recitations but the Materia Medica of special drugs together with elementary Prescription Writing will be treated along with the pharmacology of the different drugs, in the course on—

**Systematic
Pharmacology**

(Professor Halsey.) This course will consist of about sixty hours of recitations, lectures, and demonstrations on the general principles of pharmacology and on the pharmacology and toxicology of the important and commonly used drugs and poisons. Here too the clinical significance and uses of these drugs will be discussed as far as seems advisable and drills in prescription writing will be held from time to time. Coincident with and in close relation to this course, will be given the course on—

**Experimental
Pharmacology**

(Professor Halsey and Assistants).—The required work in this course will consist of laboratory exercises, in which the students will conduct for themselves a number of experiments illustrating the physiological and toxicological action of several of the most important drugs. *Further work on experimental pharmacology may be carried on as an optional course by students or others qualified.*

**Non-Pharmaceutical
Therapy**

(Professor Guthrie).—During the first half of the third year two hours weekly will be devoted to lectures, recitations and demonstrations of these increasingly popular and important therapeutic methods. The course will be illustrated by lantern slides, plates, &c., and by demonstrations of apparatus and methods, and will include massage, exercise, hydrotherapy, the use of heat and cold, hyperemia methods, photo-electro and radiotherapy, and dietetics. In this course chief stress will be laid on the methods of using and modes of action of these important remedial measures, their special indications being discussed briefly and on broad lines.

Dietetics

(Professor Guthrie).—Part of the first half of the third year will be devoted to a consideration of the question of foods from the standpoint of prophylaxis and as applied to feeding the sick. In the course special stress will be laid on the feeding of patients in such diseases as are treated exclusively by special dietetic measures.

Systematic Therapeutics (Professors Halsey and Guthrie).—During the last half of the third and first half of the fourth year two hours weekly will be devoted to lectures and recitations on the general and underlying principles of the treatment of various clinical conditions and of the chief diseases. In close connection with this course will be—

Therapeutic Clinics (Professors Halsey and Guthrie. Fourth year students).

These will be held weekly in the amphitheater of the Charity Hospital, patients being selected especially for their therapeutic interest. They will be chosen as far as is feasible for their relation to subjects treated in the course on systematic therapeutics and will be demonstrated and discussed by teachers and students with especial reference to the care and management of these and similar cases. Whenever the opportunity presents itself cases will be used which permit of demonstration in the amphitheater of special methods of treatment such as stomach or colonic lavage, giving of enemata, inunctions, hypodermic medication, massage, passive or resistance exercises, baths, packs, &c.

Bedside Therapeutics In the ward and out-patient work for fourth year students in the department of internal medicine, especial attention will be given by the various teachers to the too often neglected matter of treatment. Here and in the courses on systematic pharmacology and systematic therapeutics, in the therapeutic clinics, and in the therapeutic conferences, the troublesome matter of **prescription writing** will receive the necessary attention.

Therapeutic Conferences will be held by Professor Halsey in conjunction with the clinical work in the wards and out-patient clinics. These conferences will be held weekly during the Senior year, and in them cases seen in the clinic and wards will be discussed in their therapeutic aspects. Drill in prescription writing will be a prominent feature of these conferences. Cases presenting themselves at the clinic and needing home treatment will be assigned to students desirous of making such visits and thus securing an insight to ordinary conditions of practice.

Text-books—*Pharmacology*—Sollman; Cushny, Dixon.

Therapeutics—Forcheimer; Ortner; Reference: Modern Medicine.

Dietetics—Friedenwald and Rührhah.

Non-Pharmaceutical Therapy—Reference: Solis Cohen, System of Physiological Therapeutics.

Special—Van Noorden's Nephritis; Van Norden's Diabetes.

Psychotherapy—Dubois, Psychic Treatment of Nervous Disorders.

DEPARTMENT OF MEDICINE

PROFESSOR JOHN B. ELLIOTT, JR., M. D. (Clinical Medicine).

PROFESSOR J. T. HALSEY, M. D. (Therapeutics and Clinical Medicine).

PROFESSOR GEORGE S. BEL, M. D. (Clinical Medicine).

ASSOCIATE PROFESSOR J. BIRNEY GUTHRIE, M. D. (Therapeutics and Clinical Medicine).

LECTURERS AND INSTRUCTORS IN CLINICAL MEDICINE

Dr. I. I. Lemann

Dr. C. L. Eshleman

Dr. J. D. Weis

Dr. C. C. Bass

Dr. H. P. Jones

Dr. S. K. Simon

Dr. Randolph Lyons

Dr. J. E. Landry

Dr. John G. Gage.

ASSISTANTS IN CLINICAL MEDICINE

Dr. E. H. Mahler

Dr. W. H. Harris

Dr. W. T. Patton

THEORY AND PRACTICE OF MEDICINE

The course of study in internal medicine begins in the last half of the second year. Professor Bel gives a systematic lecture course on the elements of physical diagnosis once a week, illustrated by dissections, charts, diagrams, and demonstrations on the normal body. The relations of regional anatomy, physiology, and physics to diagnosis are impressed upon the student, and his knowledge is tested by quizzes at the end of each hour, as well as by his practical work.

Second Year.

Physical Diagnosis (Professor Bel, Drs. Mahler, Harris and Patton).—The practical course is given in the last fifteen weeks of the second year, three times a week. The class is divided into sections and the members, under the guidance of Professor Bel and his assistants practice all the methods of physical diagnosis of the normal subject. Accurate technic and familiarity with the normal signs are the aims.

Third Year.

Theory and Practice of Medicine

Recitation Course.—(Drs. Lemann, Eshleman and Simon).

The class is divided into three sections. Lessons are assigned in a standard text-book and the efficiency of study ascertained by a quiz, covering in the course of the year the most important internal diseases. Understanding of the subject is sought, not a mechanical ability to repeat it. A record of work and attendance is kept and used in determining the student's standing.

Diagnostic Clinic

(Professor Elliott). Once a week. In this the clinical phenomena that can be seen will be studied and their value in diagnosis considered. Alterations of size, form and color, position, station, gait, expression, etc., and their causes, will be examined and discussed by members of the class. The clinical manifestations of pathological physiology will be studied, as far as possible. Instructive specimens that are adapted to demonstration before a large class will be demonstrated as often as possible.

Ward Classes in Clinical Diagnosis

(Professor Bel, Drs. Eshleman, Simon, Mahler, Harris, Patton.) Three times a week; seven weeks. Small sections, subdivided into smaller groups under the charge of the several teachers, practise on patients in the wards all the methods of physical diagnosis and other manipulations necessary in the practical investigation of cases. The students write, draw or plot their findings, as part of the records of their work. They will also demonstrate and explain cases before the class. The main objects are accurate technic and familiarity with the common physical signs. The elements of case-taking will be considered towards the end of the course. The work in the class is wholly practical, reading being done outside the hours.

Laboratory of Clinical Medicine

(Dr. Bass and Assistants). In this laboratory the student is taught all the ordinary laboratory work of use in the practice of Medicine and Surgery. The laboratory is under the direction of the Department of Medicine but the clinical laboratory methods of all branches are taught.

The plan of instruction is chiefly practical. The student is made familiar with the technic and then required to examine and report his findings on a number of unknown specimens. The grades are based largely on these reports. In this way the student does a great deal of actual work, such as he will do when he gets out in practice. An

unlimited supply of material is always available from the Charity Hospital and other sources.

The laboratory is equipped with new modern microscopes, fitted with mechanical stages. The latter enable students to do 25 per cent to 50 per cent more satisfactory work than they can do without them. The laboratory is equipped for chemical analysis of urine, feces, stomach contents, etc., so the student can conduct the entire chemical and microscopical examinations side by side just as he will in practice.

Twice a week, two hours each, throughout each term. Each student is provided with microscope with three lenses (including oil immersion) and mechanical stage. Blood counters and other apparatus are provided as needed, as well as reagents, stains, etc. All the more important specimens of blood, urine, feces, sputum, stomach contents and other products are examined by the best methods. The material in malarial parasites and protozoa and ova in stools, is especially rich, and all other material is available in large quantities. Drawing and describing of preparations forms an important part of the work, and all technical details used in laboratory diagnosis are thoroughly and practically taught.

Fourth Year.

Didactic Lectures Special subjects in internal medicine will be considered in didactic lectures as follows: Dr. Weis, Blood Diseases, Tropical Diseases; Dr. Lemann, Diabetes, Gout and Obesity; Dr. Simon, Gastro-Intestinal Diseases.

Clinical Lectures (Professor Elliott). One hour each per week. Patients illustrating the most important diseases will be demonstrated in the amphitheater, the histories taken by members of the class read, the necessary examinations made, and the diagnosis, pathology and treatment discussed. The various diseases will be presented systematically, as far as possible.

Clinical Conference Once a week Professor Elliott will hold a clinical conference in the amphitheater, and will study cases with special reference to case-taking, methods of clinical examination and differential diagnosis and treatment.

Therapeutic Clinic (Professors Halsey and Guthrie). (See under *Therapeutics*)

Ward Work and Ward Classes (Professors Elliott, Guthrie, Drs. Weis, Lemann and Bass). In sections of about twenty-five, the students will work in the medical wards daily for ten weeks. In the beginning of the daily period students

will take histories, examine patients and their secretions and excretions. In the last hour they will make rounds, demonstrate and discuss cases, carry out details of treatment, and familiarize themselves with the daily life of patients sick in bed.

Out-Patient Courses (Professor Halsey, Drs. Jones and Landry). Students work in the medical dispensary three hours a week for five weeks, in small sections, assisting in all details of examination and treatment, thus seeing many examples of chronic and minor ailments.

In both wards and dispensary instrumental methods of examination are cultivated thoroughly.

Cases having relation to other clinics, or to the Department of Pathology, will be shown from the standpoints of the other departments, as far as possible. Many borderline cases of diseases of the stomach, liver and other abdominal organs, of the pleura, etc., are utilized in this way.

Text-books—*Internal Medicine*, Osler; Tyson; Anders. For Reference: Flint's Practice, Fifth or Sixth edition; Osler's Modern Medicine; Allbutt's System; Nothnagel's System (translation);

Diagnosis—Cabot; Sahli; Musser; Hutchinson and Rainey. For laboratory work: Emerson; Simon; Wood.

Blood—Cabot; Da Costa.

Tropical Diseases—Manson; Scheube; Mense; Rogers.

Parasitology—Braun.

Lungs—Fowler and Godlee. *Heart*—Colbeck; McKenzie. *Intestines*—Schmidt and Strasburger.

HYGIENE

HYGIENE For the session of 1909-1910 lectures were given by the several members of the Faculty whose branches are cognate with the subject of hygiene, each professor submitting questions for examination at the end of the course.

Hereafter these lectures will be given to students of the third year and examinations will be held at the end of the session.

It is proposed from time to time to invite distinguished sanitarians, public health officials and experts in special branches of preventive medicine to fill special lecture hours assigned to this subject.

Until the Chair of Hygiene is filled the above plan will be followed.

Text-book: Egbert.

DISEASES OF THE NERVOUS SYSTEM

PROFESSOR P. E. ARCHINARD, M. D. (Diseases of the Nervous System)

Dr. L. L. Cazenavette, Lecturer on the Medical Use of Electricity and Clinical Assistant.

Dr. R. M. Van Wart, Lecturer on Nervous Diseases and Clinical Assistant.

Dr. E. M. Hummel, Lecturer on Diagnosis of Insanity and Clinical Assistant.

Dr. M. T. Lanaux, Chief of Clinic and Assistant.

DISEASES OF THE NERVOUS SYSTEM

This course consists of three clinical lectures and demonstrations a week in the nervous disease wards of the Charity Hospital and the out-door clinic buildings, and of one hour a week of didactic lecture on the anatomy, etiology and pathology of the subject. The students in the Hospital are brought in close contact with the patients, are required to make examinations themselves, and to take notes and write histories. Periodic examinations and quizzes are held by the professor or one of his assistants. On special days to be assigned by the Professor, some one of the clinical assistants will deliver lectures as follows: Dr. Cazenavette on "Medical Electricity," Dr. Van Wart on "Anatomy and Physiology of the Nervous System," Dr. Hummel on "Mental Diseases."

Text-books—Starr; Church and Petersen; Dana.

DISEASES OF CHILDREN

PROFESSOR W. W. BUTTERWORTH, M. D. (Diseases of Children).

Dr. R. L. DeBuys, Lecturer and Instructor.

Dr. J. Townsend Wolfe, Instructor.

Dr. Clark H. Rice, Instructor.

Dr. Clarence P. May, Assistant.

Dr. Adolph O. Hoefeld, Assistant.

Dr. L. M. Thomason, Assistant.

DISEASES OF CHILDREN

The course consists of clinics, didactic lectures, class recitations and conferences on case histories, with ward and out-patient clinics. The course is a graded one; the work of the Junior year will consist of two recitation or quiz periods weekly; and for the purpose of applying the

knowledge thus gained, the student will be assigned to service in the out-door and ward clinics. The class will be divided into several small groups for these purposes. This will be a preparatory course intended for the fuller development of the clinical and more practical work of the Senior year. Examinations at the end of the Junior year will be given on the subjects covered and marks obtained will apply to final grade.

In the Senior year small groups of students are detailed in rotation to the clinical laboratory; to the milk and diet kitchen where the various milk formulas will be worked out; and for ward and out-clinic service at the Charity Hospital and Touro Infirmary. Patients are assigned to students who take histories, examine, diagnose and prescribe for them under the supervision of the instructor in charge. Cases are discussed and students are expected to follow and study their patients and report their observations in class conference.

In the didactic lectures particular attention will be given to maternal and artificial feeding of infants in health and disease and to the various methods of modifying milk; practical demonstrations of which will be given in the laboratory.

The several disturbances of nutrition will be considered and the practice of this knowledge in the wards and clinics at our disposal will give additional notice to the important subject of nutrition in the infant and young child.

The infectious and contagious diseases common to childhood will be considered in detail.

The class will be divided into sections for recitation or quizzes and for conferences on case histories; the latter method will occupy an important position in the didactic course and will be so arranged as to cover much of the subject of pediatrics.

Text-books—Holt; Koplik; Carr; Rotch; Taylor and Wells; Cotton; Fischer; Pfaundler and Schlossmann.

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

PROFESSOR E. S. LEWIS, M. D. (Obstetrics and Gynecology).

ASSOCIATE PROFESSOR S. M. D. CLARK, M. D. (Gynecology).

Dr. P. B. Salatich, Clinical Instructor of Obstetrics.

Dr. C. N. Chavigny, Clinical Instructor of Obstetrics.

Dr. J. F. Points, Clinical Assistant in Obstetrics.

Dr. H. W. Kostmayer, Clinical Assistant in Gynecology.

Dr. J. Barnett, Clinical Assistant in Gynecology.

Dr. C. G. Cole, Clinical Assistant in Gynecology.

OBSTETRICS

The instruction is didactic and practical. Two didactic lectures a week are given by the Professor of Obstetrics to third and fourth year students and one a week by the associate to third year students on the elements of obstetrics and obstetric manipulations. Practical instruction is given in the obstetrical wards and in the out-clinic, established under the supervision of the professor of obstetrics and in charge of the instructors with a competent staff. This will afford facilities for each student of the graduating class to be present at from three to four confinements.

An *out-door* obstetrical department has been planned which will provide students with the privilege of witnessing and assisting in cases of labor at the residences of patients. In this way valuable demonstrations in domestic asepsis and antisepsis will be combined with instruction in the practice of midwifery.



DELGADO MEMORIAL.

GYNECOLOGY The amount of material in this department is not surpassed in any city in the United States. Operations are witnessed by sections of the fourth year students three times a week. In the absence of operations they are instructed in the wards. One didactic lecture a week is given by the professor of gynecology to fourth year students and one amphitheater clinic lecture to all who may choose to attend.

The Associate Professor lectures once a week to third course students on the elements of gynecology, methods of diagnosis and instruments. These lectures are illustrated with lantern slides. He has also a section of third year students assigned who are taken to the wards and out-clinic and taught practically by examining patients how to diagnose the various diseases of the genital organs of women.

Text-books—*Obstetrics*—Jewett; American Text-book; Webster; Edgar; Williams.

Gynecology—Dudley; Hirst; Reid; Montgomery; Findley; Gilliam.

DEPARTMENT OF PATHOLOGY AND BACTERIOLOGY

PROFESSOR CHARLES W. DUVAL, M. D. (Pathology and Bacteriology.)

F. B. Gurd, B. Sc., M. D., Demonstrator and Instructor of Pathology.

M. J. Couret, A. M., M. D., Demonstrator and Instructor of Pathology.

Wm. H. Harris, A. B., M. D., Demonstrator of Bacteriology and Pathology.

J. T. O'Eerrall, M. D., Assistant Demonstrator of Bacteriology and Pathology.

W. T. Patton, M. D., Assistant Demonstrator of Bacteriology and Pathology.

Mr. E. C. Samuel, Assistant in Laboratory of Pathology and Bacteriology.

Mr. H. W. Wade, Assistant in Laboratory of Pathology and Bacteriology.

Second Year The lectures and the laboratory courses in bacteriology and microscopic pathology are conducted in the Richardson Memorial (Tulane Campus), where ample facilities are provided for teaching and research in the laboratory of pathology and bacteriology. The classes are arranged in two divisions, each receiving practical instruction twice a week for three hour periods.



LABORATORY OF PATHOLOGY AND BACTERIOLOGY

BACTERIOLOGY

This course is held in the first term of the second year and precedes the work in microscopic pathology. The first few weeks of instruction comprises bacteriological methods. The student is instructed in the preparation of culture media, the separation of bacteria, handling and transplanting cultures, technic of staining and other methods of observing the bio-chemical features of micro-organisms. Subsequently the work with the more common pathogenic bacteria follows. These are studied in relation to a given organ or tract; for example, the etiological factors in diseases of the respiratory system are considered before passing on to the causal agents in the diseases of another system. A practical, written and oral examination is held at the end of the session.

MICROSCOPIC PATHOLOGY

The regular course for laboratory instruction in microscopic pathology begins immediately after the Christmas Holidays (January 2, 1911), and continues until the end of the session.

The first weeks of the course are devoted to the study of pathological technic in order that the student may familiarize himself with the various methods of preserving, imbedding, cutting and staining of tissues. Sufficient time is given to the study of methods that will insure an intelligent understanding of them. The rest of the session is

devoted entirely to instruction in microscopic histo-pathology. During this period microscopic sections already stained and mounted are given out to the students for each day's work.

An essential feature of the course in microscopic pathology is the lantern demonstration of stained and mounted sections. This preliminary illustration before each laboratory period serves to instruct the class as a whole on the important things in each tissue section and how to proceed with their study. Students are required to make drawings of the microscopical specimens given out during the course.

The course of instruction considers first the general subject of inflammation and retrogressive tissue changes, after which the special lesions are taken up systematically and under separate organs or tracts. At the end of the session there is held a written and practical examination in general and special pathology.

Lectures in Pathology and Bacteriology extend over the entire second year.

Third and Fourth Year The third and fourth year classes are divided into small groups of not more than ten men each for practical instruction at the Charity Hospital in gross pathology and autopsy technic. This work is carried on in connection with clinical teaching. Each section of the class is notified when an autopsy is pending and is excused from other work to attend the postmortem. The division of the class into small sections makes it possible for each student to take part in the autopsy. The men of a given section are assigned different parts; for example, the head to one, the thorax to another, the abdomen to still another, etc., and under the supervision of the director of the pathological department and his assistants the post-mortem is actually performed by the students. Supplemental to the study of the gross tissue changes, microscopic sections of the fresh tissue are examined together with already stained sections of the particular lesion or lesions found at that autopsy.

It is planned that the fourth year class, in addition, shall meet every week with the laboratory and clinical staffs in the hospital amphitheater of the Charity Hospital for a combined conference on the material studied during the week past.

A written examination on general pathology including autopsy technic will be held at the end of the third year course.

The fourth year class will receive one or more questions on pathology in their regular examination in medicine.

Text-books—*Pathology*—Delafield and Prudden; Kaufman; Ribbert; Adami.

Bacteriology—Jordan; Park; Muir and Ritchie; Kolle and Wasserman.

DEPARTMENT OF SURGERY

- PROFESSOR RUDOLPH MATAS, M. D. (General, Regional and Clinical Surgery).
- PROFESSOR ERASMUS D. FENNER, M. D. (Orthopedic Surgery).
- PROFESSOR HERMAN B. GESSNER, M. D. (Operative Surgery in the Miles Laboratory, and Clinical Surgery).
- ASSOCIATE PROFESSOR JOHN SMYTH, JR., M. D. (Laboratory of Minor Surgery, and Instructor in Clinical Surgery.)
- Dr. Luther Sexton, Lecturer and Clinical Instructor in Minor Surgery.
- Dr. Joseph Hume, Lecturer on Venereal and Genito-Urinary Diseases.
- Dr. Marion S. Souchon, Instructor in Clinical Surgery.
- Dr. William M. Perkins, Instructor in Clinical Surgery.
- Dr. Urban Maes, Demonstrator in Operative Surgery and Instructor in Clinical Surgery.
- Dr. Carroll W. Allen, Instructor in Clinical Surgery.
- Dr. Lewis B. Crawford, First Assistant Demonstrator in Operative Surgery.
- Dr. Lucian H. Landry, Second Assistant Demonstrator in Operative Surgery and Clinical Assistant in Surgery.
- Dr. E. L. Leckert, Clinical Assistant in Surgery.
- Dr. Samuel Logan, Assistant in Venereal and Genito-Urinary Diseases.
- Dr. A. M. Caine, Clinical Instructor of Anesthetics.
- Dr. Isidore Cohn, Assistant Demonstrator in the Laboratory of Minor Surgery.
- Dr. W. Lassiter, Clinical Assistant in Surgery.

In the Hutchinson Laboratory of Surgical Pathology.

Collaborating with the Department of Surgery.

- PROFESSOR CHAS. W. DUVAL, M. D. (Surgical Pathology.)
- Dr. Frazer B. Gurd, Demonstrator and Instructor.
- Dr. M. J. Couret, Demonstrator and Instructor.
- Dr. W. H. Harris, Assistant Demonstrator and Instructor.

The division of Surgery is composed of the Departments of Surgery, Clinical Surgery, Orthopedic Surgery, Surgical Pathology, Operative Surgery, Minor Surgery, Genito-Urinary Surgery.

SURGERY Instruction is given by systematic lectures, recitations, lantern demonstrations, clinical demonstrations; by teaching at the bedside, in the wards; in the out-patient departments; in the laboratory; and by monthly written reviews.

First Year, In the first year, a course is given by Professor
Minor Surgery Smyth assisted by Dr. Cohn, in the laboratory of Minor Surgery at the Richardson Memorial Building, Tulane Campus.

Laboratory of Minor Surgery. This laboratory was first organized and equipped by Professor Matas in 1901 and was designed to give a course of systematic demonstrations and individual exercises in Minor Surgical procedures. The aim of the first year's course will be to prepare the student by manual training and personal experience in the elementary mechanics and fundamental procedures of minor surgery (bandaging; plaster of Paris; liquid glass; proper use of tools in making splints and improvising apparatus, etc).

The student will also be given an insight into the practical side of his professional work, (in keeping with his elementary knowledge of Anatomy and Physiology) by a series of demonstrations on *First Aid* in injuries and accidents, including the methods of transportation and care of the wounded and disabled; the mode of improvising splints, litters, bandages and, in fact, all the elementary instruction that is given to the lay members of the Red Cross Societies throughout the world.

Through the courtesy of the Surgeon General and of the Medical Officers of the U. S. Army stationed at Jackson Barracks, the class is given opportunities each session for the observation of and participation in the litter and ambulance drill of the Hospital Corps of the U. S. Army.

Second Year The second year's work in the Laboratory of Minor Surgery is of a more advanced character in keeping with the progress of the class in the study of Anatomy and Physiology. The application of Anatomy to Surgery will be especially considered in an experimental course of fractures and dislocations on the cadaver and by radiographic studies (Fluoroscopic) of the fractures thus obtained. A series of demonstrations on Surgical Applied Physiology will also be given, illustrating the subjects of Shock, Hemorrhage, Anesthetics, Cerebral Compression, Pneumothorax and Artificial Respiration, etc.

Third Year *Clinical Minor Surgery* (Outdoor clinics; ward work; amphitheater).

General Surgery or Principles of Surgery. (Hospital and Hutchinson Memorial.)

Surgical Pathology. (Hutchinson Memorial).

The first contact of the student with the sick and injured occurs in this year. All the previous work in this department is intended to prepare the student to appreciate the great opportunities for clinical observation which are now offered him at the Charity Hospital.

The course of Clinical Minor Surgery is conducted by Dr. Luther Sexton assisted by Dr. Leckert, in the out clinics and in the amphitheater of the Charity Hospital where anesthetics, local and general; bandaging, asepsis and antisepsis, fractures, dressings, etc., are especially taught. This course is supplemented by lectures, quizzes and demonstrations given at the Hutchinson Memorial.

Another division of the class is subdivided into clinical groups guided by Drs. Smyth, Maes and Allen who utilize the time allotted to the class by giving instruction at the bedside in diagnosis, prognosis, post-operative treatment and in the proper observations for recording surgical cases. These instructors operate before the class in the Miles Amphitheater or in the Delgado Memorial according to their assignments. Quizzes are a particular feature of this course.

Class Lectures A systematic course of lectures and demonstrations on General Surgery and the Principles of Surgery is given at the Hutchinson Building by Professor Matas on Tuesdays and Wednesdays. Monthly written examinations are held throughout the session to review the progress accomplished during the month.

Clinical lectures are given at the Charity Hospital by Professor Matas on Mondays, Wednesdays and Saturdays. Mondays and Saturdays are the chief operating days and operative clinics will be held in the Miles Amphitheater or in the "Matas Operating Room" of the Delgado Memorial. The Thursday clinics will be held in the Miles Amphitheater as hitherto and will be devoted to the exhibition of post-operative results and the diagnosis and prognosis of new cases. The third year class is especially expected to attend this clinic.

Surgical Pathology Four hours a week will be given for the demonstration of fresh surgical specimens, gross and microscopic; the repair of various tissues, wounds, bones, vessels, nerves, tendons, etc.; the specific infections and surgical lesions of the various tissue systems, lymphatics, joints, bones, etc. Surgical lesions of the thyroid, mammary and salivary glands; of the digestive tract; of

the urinary and genital tract. Special attention will be paid to the discussion of immunity, in so far as it determines surgical procedure. Preparation of vaccines and the technique of the Wasserman reaction, etc. This course will be conducted conjointly with the course of general surgery by Dr. Frazer B. Gurd and his assistants.

Fourth Year *Clinical Surgery* (in the amphitheater and in the wards); *Operative Surgery*.

Regional Surgery. Clinical instruction is given to sections of the class in the wards; at the bedside and in the amphitheater by Professors Matas and Gessner and Drs. Perkins and Souchon who will devote special attention to diagnosis, prognosis, the principles of surgical technic, post-operative treatment, etc., as applied to the various regions. The opportunity is given to students to assist in the administration of anesthetics and in the post-operative dressings. A systematic course in regional surgery is given by Professor Matas which is illustrated by lantern slides and the Carman opaque projector. The clinical demonstrations and lectures given in the amphitheater of the hospital on Mondays, Thursdays and Saturdays are especially intended for the benefit of the senior class with the exception of the Thursday lecture at which both the Junior and Senior classes are expected to be present.

Anesthesia Special instruction and demonstrations in methods of general Anesthesia will be given every week by Dr. Ansell M. Caine, at the Surgical Clinics and before class sections assigned to this division.

TOURO INFIRMARY During the fourth year, sections of the class are regularly assigned to the Surgical Clinics, held at the Touro Infirmary from 8:30 A. M. to 10:45 A. M. The large number, variety and importance of the cases operated upon at the Clinic by Professor Matas, assisted by Professor Gessner, Drs. A. J. Mayer and L. H. Landry and the members of the resident staff, should make these Friday clinics especially attractive to advanced students and to graduates.

The out-door Surgical Clinic of the free department of this Institution cared for over 8,300 patients during the last year. The admirable opportunities offered for practical observation of the more frequent surgical accidents and diseases make this clinic especially valuable and instructive to the student. Drs. A. J. Mayer and R. E. Stone, who are in charge, will always give ample opportunities for individual work to all advanced students who may apply for regular attendance, during the Winter and Summer terms.

OPERATIVE SURGERY

The Miles 'Laboratory of Operative Surgery is in charge of Professor Gessner, assisted by Drs. Maes, Crawford and Landry. In this course the laboratory work proper is preceded by a recitation on subjects previously assigned, with elaboration by the instructor and lantern slide illustrations. The operative work is done by the students exclusively, under supervision of the demonstrators, each of whom has not more than twelve students assigned to him. The entire field of general operative surgery is covered, the aim being to fit students for the operative work in general practice. Students are assigned in limited sections so as to emphasize the subjects taught through individual attention. The class of the fourth year is divided in two sections each covering laboratory periods of about fourteen weeks.

GENITO-URINARY and VENEREAL DISEASES

The course in Genito-Urinary and Venereal Diseases is in charge of Dr. Joseph Hume, who arranges the practical teaching of the branch. Students of the third year are assigned to cases, for personal practice in the examination of patients, passage of sounds, in irrigation methods, etc. The class is divided into sections of limited numbers, to facilitate the teaching.

In weekly general class lectures, Dr. Hume takes up in sequence the anatomy and physiology of the male genito-urinary tract, the diseases of the urethra, prostate, seminal vesicles, bladder, and kidneys, with special lectures on stricture, urinary fever and prostatic hypertrophy. Chancroid and its complications, sexual neuroses and syphilis are also discussed.

Text-books—First Year: *First Aid and Emergencies*—Doty, Pilcher, Lynch.

Second Year: Laboratory Notes.

Third Year: *General Surgery and Minor Surgery*—DaCosta, Fowler, Lexer, Rose & Carless, McGuire, Park. *Surgical Pathology*; Senn, Warren, Laboratory Notes.

Fourth Year: *Operative Surgery*—Prof. Gessner's notes, Bickham; for general reference; Burghard. *Regional Surgery*—Prof. Matas' notes; texts referred to under general surgery, and for general reference, Keen's System of Surgery. *Venereal and Genito-Urinary Diseases*—Taylor, Hyde and Montgomery, Keyes, Morton, Watson and Cunningham, White and Martin.

ORTHOPEDICS AND SURGICAL DISEASES OF CHILDREN

PROFESSOR E. D. FENNER, M. D. (Orthopedics and Surgical Diseases of Children).

Dr. G. K. Logan, Clinical Assistant

Dr. P. A. McIlhenny, Clinical Assistant.

Dr. E. S. Hatch, Clinical Assistant.

ORTHOPEDICS AND SURGICAL DISEASES OF CHILDREN

It will be the aim of this department to teach as fully as the material to be obtained from the clinics and wards will permit by bringing the student in close contact with the actual cases. Every effort will be made to emphasize practical diagnosis and treatment of the affections included under orthopedic surgery, and to point out the special features of the surgery of childhood, and in particular those affections which are peculiar to early life. The demonstration of cases in the wards, clinics, and operating room will be supplemented by didactic lectures, fully illustrated by lantern slides, and by quizzes during the progress of the course.

DISEASES OF THE SKIN

PROFESSOR ISADORE DYER, Ph. B., M. D. (Diseases of the Skin).

Dr. Ralph Hopkins, Lecturer and Clinical Instructor.

Dr. Henry E. Menage, Lecturer and Clinical Instructor.

Dr. Robert C. Finlay, Clinical Assistant.

DISEASES OF THE SKIN

Instruction in skin diseases extends through the third and fourth years. In the third year systematic lectures, text-book readings and quizzes are given, with laboratory periods in the pathology. To fourth-year classes diseases of the Skin are taught practically in the out-door clinics and wards of the Charity Hospital by the presentation and discussion of the patients exhibited. The class is divided into sections for this work and assigned for fixed periods during which groups of

students are made to analyze cases and undergo quizzing by the Professor and the Lecturers and Instructors. Instruction is also given in the practical therapeutics of skin diseases.

General class lectures are given weekly, supplemented by lantern slide teaching and other demonstrations.

Text-books—Stelwagon; Jackson; Dyer.

OPHTHALMOLOGY

PROFESSOR M. FEINGOLD, M. D. (Ophthalmology).

Dr. Victor C. Smith, Demonstrator and Clinical Assistant.

DISEASES OF THE EYE

Clinical instruction is given during the fourth year in the out-clinics and wards of the Charity Hospital to sections of the class. The material is used to present practically the principal diseases of the eye of importance to the future practitioner. Differential diagnosis, prophylaxis and treatment are emphasized. The important symptom complex of eye-strain is demonstrated through the minute examination of patients and their histories and by following up cases treated.

External affections of the eye are demonstrated and students are trained practically in the examination of patients. The anatomical and pathological features are especially discussed and illustrative plates, etc., are used in elucidation.

Practical familiarity with the use of the ophthalmoscope and with its application is required.

The weekly lectures in the amphitheater are made use of in order to demonstrate the clinical symptoms in groups of cases, to show the progress of the disease in cases already demonstrated, and to give small groups of students a chance to see eye operations at close range.

In weekly lectures before the class at the Hutchinson Memorial Building, a didactic review of the anatomy, and physiology of the eye and its appendages is followed by a systematic presentation of the diseases of the eye, especially as they are related to diseases of the other organs. Here also, plates, books, pictures, schematic drawings, by the aid of the epidiascope and the projection lantern, are demonstrated and explained, and groups of patients are brought to demonstrate subjects already discussed.

Text-books—Fuchs; Haab; DeSchweinitz; Nettleship; Roosa and Davis; Gould and Pyle; Henderson; Hansell and Sweet; Fox; May;

OTOLOGY, RHINOLOGY, AND LARYNGOLOGY

PROFESSOR CHARLES J. LANDFRIED, M. D. (Otology, Rhinology,
and Laryngology).

Dr. J. P. Leake, Clinical Instructor.

Dr. Allan A. Kennedy, Clinical Assistant.

DISEASES OF THE EAR, NOSE and THROAT

The student will be familiarized with the various instruments necessary for the early recognition of the diseases of the ear, nose, and throat, and this will be done in a practical way. The clinics at the Charity Hospital afford unusual opportunities for the study of these diseases and will be depended on for carrying out the clinical aspects of the teaching.

The students will be given every opportunity for practical education in this department by assisting the professor in the various and frequent operative procedures. They will come in personal contact with infants and children presenting the diseases which, of late years, have been engaging the attention of the thinkers in medicine and surgery, and in which the early diagnosis and proper treatment have become a matter of paramount importance to the general practitioner.

Every effort will be made to so equip the class that when they leave the school they will be able to recognize the diseases of the department in a manner that will give them conviction; and that can only be done by specially training the eye and the touch.

The teacher of this branch will conduct clinical quizzes with the examination and treatment of the patient as a part of the routine.

Text-books—*Diseases of the Ear*—Politzer; Blake-Reik; Dench; Gleason. *Diseases of the Nose and Throat*—Ballenger; Kyle; Bosworth; Ball; Ingalls.

DEPARTMENT OF PHARMACY

FACULTY

EDWIN BOONE CRAIGHEAD, A. M., LL. D., D. C. L., President.
ISADORE DYER, Ph. B., M. D., Dean.

ABRAHAM LOUIS METZ, Ph. G., Ph. M., M. D., Professor of Chemistry and Toxicology and Head of the Department of Chemistry.

JOHN TAYLOR HALSEY, M. D., Professor of Materia Medica and Pharmacology.

LEVI WASHINGTON WILKINSON, M. Sc., Professor of Industrial Chemistry.

BENJAMIN PALMER CALDWELL, A. B., Ch. E., Ph. D., Associate Professor of Chemistry.

REGINALD SOMERS COCKS, A. M., Ph. G., Professor of Botany and Pharmacognosy.

GUSTAV MANN, B. Sc., M. D., Professor of Physiology.

CHARLES WARREN DUVAL, M. D., Professor of Bacteriology.

GEORGE STEWART BROWN, M. Ph., M. D., Associate Professor of Pharmacy.

————— Demonstrator of Chemistry,
RALPH HOPKINS, A. B., M. D., Lecturer on Physiology.

JEROME E. LANDRY, M. D., Lecturer on Materia Medica and Pharmacology.

ANNOUNCEMENT
OF THE
DEPARTMENT OF PHARMACY
OF THE
TULANE UNIVERSITY OF LOUISIANA

1910-1911

ANNOUNCEMENT The University is authorized by law to grant diplomas in Pharmacy, and the Medical Department has exercised this privilege since 1838. Beginning with the session of 1908, the pharmaceutical school of the Medical Department became the Pharmacy Department of the Tulane University of Louisiana.

The pharmaceutical laboratory, the pharmaceutical dispensing laboratory, the pure food and drug laboratory, the laboratory of general, qualitative and quantitative chemistry, and other laboratories for special work are located in the commodious Richardson Chemistry Building; while the laboratories of botany and pharmacognosy, physiology, pharmacology and bacteriology are in the new Richardson Memorial Building situated upon the University Campus. The laboratories and lecture rooms are built for the purposes for which they are intended and the equipments of the various laboratories are ample and up to date.

Students of the Pharmacy Department are entitled to all privileges of the University dormitories and dining hall located on the University grounds.

The advantage of University residence can hardly be appreciated by students who have not been acquainted with its conditions. The museum, the public lecture courses, the library, and above all, the personal associations are most important educational features,

Pharmacy students who wish to make application for rooms, or who desire more information regarding the dormitories should communicate with the Secretary, Gibson Hall, Tulane University.

REQUIREMENTS FOR ADMISSION

Every student before being matriculated for the first course of pharmaceutical lectures must possess the following qualifications:

He must submit a certificate of good moral character and of fitness to enter upon the study of pharmacy, such certificate to be signed by a reputable pharmacist.

Applicants will be accepted who offer any of the following credentials:

- (a) Certificates of graduation from recognized high schools.
- (b) Diplomas of graduation from recognized schools or academies.
- (c) Certificates of high standing in other institutions of collegiate grade.
- (d) Diplomas from normal schools.
- (e) First-grade teachers' certificates.
- (f) Certificate of having completed satisfactorily the third year's course in a recognized high school.

(g) Applicants for admission presenting certified evidence of admission to the Freshman class of a standard university or college may submit such evidence instead of above certificates.

REQUIREMENTS FOR ADVANCED GRADES

A set of tickets, showing that the holder has attended one full course of pharmaceutical studies in any regular and recognized pharmaceutical school is essential to matriculating for a second course of lectures. To be credited with a full course, at least eighty per cent of the session must have been attended.

Students from other colleges entering the second year will be required to show evidence that the entrance requirements of the college at which they commenced the study of pharmacy were not less than the requirements of this department at the same time.

Students, who, during courses in this college, convict themselves of defective general education, shall be required to remove this disability before they are graduated.

SYNOPSIS

Studies and Examinations The full course of Lectures and all Laboratory courses will begin Saturday, October 1, 1910.

Degree Two graded courses of thirty-two weeks each will be required to complete the course of study leading to the degree of Ph. C. (Pharmaceutical Chemist).

First Year *Physics, chemistry and toxicology, botany, physiology, hygiene, theory and practice of pharmacy, and laboratory work in pharmacy and general analytical chemistry.*

Second Year *Chemistry, toxicology and organic chemistry (including physiological and medical chemistry) with laboratory work, quantitative analysis, pharmacognosy, hygiene, materia medica and pharmacology, drug assay, prescription practice in the dispensing laboratory, manufacturing pharmacy, theory and practice of pharmacy.*

Special attention is given to the *practical laboratory training* of students. The value of practical laboratory training cannot be overestimated and students of this institution are provided with exceptionally superior advantages in this respect. Educational advantages of every kind are afforded to students in pharmacy.

FEES The charge for the first full course in Pharmacy for each year is \$75 viz: For matriculation \$5, professors' fees \$35, chemical laboratory \$15, and pharmaceutical laboratory \$20. To the second year must be added the examination, graduation and diploma fee of \$20.

In addition, every student must deposit a breakage fee of \$5 for the Chemical, and \$5 for the Pharmaceutical Laboratory, to reimburse needless injuries inflicted on the laboratories and their contents. Any unused part of such fee will be refunded on proper demand at the end of each session.

Students who are properly qualified and who desire to take up the Food and Drug Course can do so by paying the Food and Drug laboratory fee of \$75.

Special.—The fee for a special lecture course in any single department of the regular pharmacy course is \$25.

The Faculty reserves the right to increase these fees after the session of 1909-10.

Unused proportion of fees will be refunded if written withdrawal is made before March 1st. No refund will be made after March 1st.

EXAMINATIONS

All Junior students who desire to enter the Senior class are required to pass examinations in all the subjects taught during the junior year. The Junior examinations cover all branches taught during the Junior year, but the examinations in Botany, Physics and Physiology are final in these branches, and the ratings count in the examinations for graduation at the end of the Senior year.

EMPLOYMENT

All drug clerks and students, on coming to New Orleans may call upon the Dean and register their names and applications. They should bear in mind that, notwithstanding the experience they may previously have had in the business, students cannot expect to receive much salary, especially as they must attend lectures, laboratories, etc., necessitating a good deal of absence from store duty.

All druggists and pharmacists of New Orleans and vicinity are informed that they may consult the list of applicants for positions or situations, and they are kindly requested to notify the Dean whenever they have vacancies, that he may send the applicants to them.

Notwithstanding the officers and professors of the University cheerfully exert themselves to obtain employment for the students, yet none should come unprepared to meet the expenses of board and tuition. Students can seldom procure positions in advance of their coming, and those who can not afford the outlay, are advised to delay till a more favorable time.

If possible, every student should try to have all his time for study, and it is the experience of the professors, that working while attending college often interferes seriously with the progress of studies.

Candidates for admission to the Senior class must either pass examinations in all the subjects of the Junior class or must produce evidence of having passed a successful examination equal to that required by this department.

REQUIREMENTS FOR GRADUATION

Every candidate for graduation must be of good moral character, which includes good conduct while a student in this college, and must have attained the age of twenty-one years.

The candidate must have attended courses of instruction during two academic years, the last to be spent at this college.

Those entitled to diplomas will receive them at the end of the

course without regard to the amount of practical drug store experience required by the Boards of Pharmacy Examiners.

Women are admitted to the full course in pharmacy on the same terms and conditions as required of male students.

PRIZES The Louisiana State Pharmaceutical Association with a view of furthering the cause of pharmaceutical education will present annually a gold medal to the student making the best general average in his studies, for the two years attendance in this institution.

GENERAL INFORMATION Information about residence in the dormitory, or about houses for boarding and lodging may be obtained from the Registrar, at the Dean's office. The price usually paid by students varies from \$16.00 to \$22.00 per month. A list of desirable boarding houses is prepared shortly before the opening of the session and may be consulted by students on their arrival at college.

Students receiving remittances from home are advised to obtain them in checks on New Orleans banks or in Post Office or Express money orders.

Correspondence intended for students of this department should be addressed "Richardson Memorial, Tulane Campus," New Orleans, La.

For any additional information address,

DR. ISADORE DYER, DEAN,
Department of Pharmacy,
P. O. Drawer 261,
Tulane University of Louisiana,
New Orleans, La.

COURSES OF INSTRUCTION

Physics (Junior)

This course of lectures extends throughout the entire term and embraces the general and special properties of matter, mechanics, hydrostatics, pneumatics, heat, light, acoustics and electricity.

The lectures are abundantly illustrated with experiments.

General Inorganic Chemistry (Junior)

This course begins with the consideration of fundamental principles, and an outline of chemical theory, embracing the subjects of atoms, molecules, nomenclature, notation, etc., and continues with the laws of chemical combination and rules governing the formation and nomenclature of acids, gases and salts. Exercises in writing and calculating chemical equations are given, followed by problems in pharmaceutical chemistry. The non-metallic elements are afterward taken up with their various compounds, including the inorganic acids and their salts.

Qualitative Analytical Chemistry (Junior)

This practical course in chemical analysis embraces manipulations of all kinds, including the fitting up of required apparatus: special tests for metals and acids and systematic instruction in the best modern methods of qualitative chemical analysis.

Pharmacy (Junior)

The object in view in this course is to teach the student to put in practice in the laboratory the principles of pharmaceutical manipulation taught in the lecture room. While the student's work is individual, it is kept under the constant supervision of professors and instructors, so that errors in conception and inaccuracies in method can be corrected as soon as manifested. This course will consist of a series of lectures, laboratory exercises and recitations in both practical and theoretical pharmacy. The laboratory work will embrace the manufacture of official galenicals, the compounding of prescriptions, etc. This work will materially assist the student in that of the Senior year.

Dispensing Pharmacy (Junior) This course embraces the methods of compounding the various types of prescriptions, from the simplest to those requiring much technical knowledge and skill. It includes theoretical instruction and training in manual work. The habit of neatness, and above all, of accuracy, acquired by the student is of direct and immediate advantage to him in rendering his services more valuable to his employer.

Botany (Junior) The object of this course is to prepare the student for undertaking that part of *Materia Medica* which relates to vegetable drugs.

The course in botany will include: (1) A consideration of the distinguishing characters of main groups of plants from the highest to the lowest. (2) The anatomy or outer structure of flowering plants. (3) The histology or inner structure of the flowering plants, including the cell contents. (4) A classification of the flowering plants yielding drugs and other products. (5) The subject of the cultivation of medicinal plants.

The lectures are illustrated with the projection lantern.

Herbarium Special attention is directed to the Herbarium of the University, which is very extensive, containing more than 25,000 specimens of European and American plants. It comprises the collections of the foremost pioneers of Louisiana; Dr. Joseph Hale, Professor John Riddell, W. H. Carpenter, Dr. Joseph Jones and others.

Physiology (Junior) As the action of medicines depends directly upon their physiological properties, a limited and specialized course of instruction in Physiology is provided.

Toxicology (Junior) A thorough course in toxicology is commenced during the Junior year, and continues throughout the Senior year. This course consists of lectures, recitations and laboratory work.

Mathematics of Pharmacy (Junior) Experience has shown that many students who arrive with credentials of proficiency in mathematics, are yet unable to apply such knowledge, even of arithmetic, to the peculiar problems which arise

in pharmaceutical manipulations. For this reason, a course in mathematics, obligatory upon all Junior students is provided. Certificates or diplomas will not be accepted in lieu of this requirement.

Inorganic and Organic Chemistry (Senior)

The metals are taken up in detail, with the various salts which are of importance in chemistry and pharmacy, together with the pharmaceutical preparations into which they enter. All typical methods for the preparation of inorganic and organic salts are explained.

Practical exercises in chemical equations are given and the student is drilled in the calculations necessary in the preparations of pharmaceutical chemicals. All the official and the more important unofficial pharmaceutical chemicals and medicinal products are taken up and classified according to their position in the various organic groups.

Organic Chemistry (Senior)

In the lecture course, especial care is taken to keep the student instructed in the new and increasing applications of this department of the science of pharmacy. The preparations of the more common organic chemicals are fully treated, and the possibilities of advances under modern methods of research are presented to the student as they are reported. No pains will be spared to keep the instruction of Organic Chemistry fully up to the demands of the times.

Quantitative Analytical Chemistry (Senior)

This is a practical quantitative analytical course. The quantity or percentage of substances present in minerals and other material are determined both by gravimetric and volumetric methods.

Physiological Chemistry (Senior)

The instruction in inorganic and organic analysis relates to the examination of substances disconnected from the living body, but the competent analyst must be prepared to consider and act upon a knowledge of the natural changes which substances undergo when absorbed into the living body, as well as the natural products there originating. This is a lecture-laboratory course and includes gastric contents and urine analysis.

Practical Pharmacy (Senior)

This is a lecture-laboratory course and serves the double purpose of presenting a theoretical basis for the practical work of the pharmaceutical laboratory and of supplementing the instruction given in the dispensing laboratory. The student will have ample opportunity of preparing many inorganic and organic compounds, and ascertaining by appropriate tests the identity and purity of various pharmaceutical and chemical compounds.

Ample facilities are provided for those engaged in assaying and carrying on plant analysis, etc. A properly equipped balance room is on the laboratory floor for the use of students engaged in quantitative work.

Dispensing Laboratory (Senior)

The work of the dispensing laboratory will deal with prescription difficulties, and embrace the very important subjects of chemical, pharmaceutical and therapeutical incompatibilities. The aim and object of this course is to make our graduates reliable and careful prescription-ists, qualified to take a position in any pharmacy in the country.

Materia Medica and Pharmacology (Senior)

MATERIA MEDICA: This course includes instruction in both Inorganic and Organic division of drugs.

In these lectures the drugs are arranged in the order of their botanical relationship. There will be general remarks upon the families, with special reference to their medicinal constituents and properties, which will always precede the consideration of the species belonging thereto. In studying the individual drugs, the order of topics is as follows: The definition given by the pharmacopeia, habit, habitat, range, collection, preparation and commerce, important constituents, medicinal action, uses and doses.

All instruction pertaining to description, structure, identification, substitution and adulteration is referred to the extensive course given in Pharmacognosy.

PHARMACOLOGY: In addition to the privilege of attending the course of didactic lectures on Pharmacology given to the medical students, the students in Pharmacy will have a special course of lectures and recitations adapted to their special needs and demands.

Pharmacognosy (Senior) (1) This will include the study and identification of the crude drugs of the U. S. Pharmacopeia.
(2) The microscopic examination of powdered drugs and foods with a view to the detection of adulteration.

The work in histological botany of the Junior year which has given the student a knowledge of the general structure, gross and minute of plants, will prepare the senior student to apply this knowledge to the understanding of the structure of the more commonly employed drugs in their natural forms.

Carefully prepared sections of the various drugs are studied and then compared with powders derived from the same drugs. This enables the student to apply his knowledge of the arrangement of plant tissue to the study of powdered drugs.

Hygiene Pharmacy students are privileged to follow the courses in Hygiene as given regularly in the Medical Department.

Bacteriology This course will be optional and charged for accordingly.

Quizzes and Recitations Thorough quizzes will be given on all branches, and in addition to the regular quizzes or recitations during the term, systematic written quizzes are given at the latter portion of each term, on all subjects, both to the juniors and seniors. The quizzes review all lectures and laboratory work so that the students practically go over the course repeatedly during the term, in such a way that the essential and important points of the studies are more permanently impressed on memory.

Pharmaceutical Jurisprudence (Senior) This course will consist of a series of lectures setting forth the legal obligations and privileges of the pharmacist, based upon the following synopsis:

CIVIL LIABILITY: Skilfulness, negligence, burden of proof, counter prescribing and recommending, errors of assistants, clerks, etc., trade marks, patenting.

CRIMINAL LIABILITY: Statutory and common law offences, manslaughter, responsibilities of assistants, clerks, etc. Adulteration of drugs, analysis by State authorities, certain drugs prohibited. Unlawful advertising, laws regarding the sale of poisons.

PHARMACY BOARDS: Constitutions, functions, examinations, general and special powers, investigations, punishment for violation of laws.

Liquor laws regarding pharmacy, patent and proprietary articles of a spirituous nature. Laws regarding the sale of narcotics, etc.

These lectures will be given by lecturers who are qualified for the subjects named.

Mercantile Pharmacy As it is conceded that many of the students who complete their pharmaceutical courses are deficient in some of the qualifications that are required to successfully conduct the commercial side of their profession, a series of lectures by competent lecturers will be given on Mercantile Pharmacy.

The Pure Food and Drugs Course The enactment of "The Food and Drugs Act" by Congress, and a similar legislation by many of the States in the Union, has placed an importance upon pharmaceutical chemistry, greater than it has ever enjoyed in the history of pharmaceutical education in this country.

It will be at once apparent that pharmacy or a knowledge of drugs, plays as great a role in the administration and enforcement of this legislation, as does chemistry. The graduate in chemistry is not wholly qualified to act as food and drug inspection chemist for the government, states, municipalities, corporations or private individuals, if he is not trained in those subjects under the collective name "Pharmacy."

The demand for chemists to do the work required under the new National and State food and drugs acts is so great that it probably can not be met for several years.

So large an amount of the work done consists of the examination of medicinal substances that a thorough course of pharmaceutical college education is imperatively necessary. Such a course is now offered by the Tulane University of Louisiana. This course is under the direct supervision and control of Professor Metz, Head of the Department of Chemistry of the University, and who is also the Official Chemist to the City of New Orleans and the City Board of Health.

This course has been devised and is admirably adapted to afford a preparation for work of this kind, but is now open only to those who possessed a high school education or its equivalent at the time of beginning their undergraduate pharmacy course, which must have comprised two full academic years, from October to June. Although the

percentage of such graduates is steadily increasing, their present number is relatively small, and we deem it our duty to the public, as well as to our graduates, to make some additional provision to meet this new demand. The course is open to all graduates of this college, and to such graduates of other colleges as possess suitable preparation.

Successful candidates will be awarded certificates of proficiency as food and drug analysts.

Two important facts must be borne in mind by those who contemplate registering for this course. The certificate will be awarded only to those who clearly demonstrate that their subsequent work will reflect credit upon their instruction and their certificate. The work, of a most practical character, will be exacting, and will require that the student have clearly in mind the information gained during his undergraduate course, especially in chemistry, pharmacy and microscopy. Those not so qualified, while they may succeed in gaining admission to the class, can not reasonably expect to succeed in their work.

The fee for the Food and Drug Course is \$75, payable in advance.

TEXT-BOOKS

Chemistry—General and Pharmaceutical—Sadtlir and Coblenz, Pharmaceutical Chemistry; Smith, Inorganic Chemistry.

Analytical Chemistry—Marshall, Medicus' Qualitative Analysis; Newth, Qualitative and Quantitative Analysis.

Physiological Chemistry—Rockwood, Hawk; Reference Reading—Hammersten, Physiological Chemistry; Simon, Physiological Chemistry.

Pharmacy—Remington, Theory and Practice of Pharmacy; Army, Principles of Pharmacy; U. S. Pharmacopeia; Caspari, Treatise; Steven, Mathematics of Pharmacy.

Pharmaceutical Dispensing—Scoville, Art of Compounding; Wall, The Prescription.

Botany—Bastin, College Botany; Rusby and Jelliffe, Morphology and Histology of Plants.

Pharmacognosy—Wall, Notes on Pharmacognosy; Jelliffe, An Introduction to Pharmacognosy; Schneider, Powdered Drugs.

Materia Medica, Pharmacology and Therapeutics—Wilcox, Materia Medica and Therapeutics.

Physiology—Howell's Physiology.

Pure Food and Drugs—Leffmann and Beam, Food Analysis; Leach, Food Inspection and Analysis; Autenrieth-Warren, Detection of Poisons; Reference Reading—Allen, Commercial Organic Analysis; Wiley, Foods and their Adulterations.

CATALOGUE OF STUDENTS

MEDICAL DEPARTMENT

* Internes of the Charity Hospital.

|| Partial-course students.

STUDENTS OF FOURTH YEAR AND ABOVE, (INCLUDING POST-GRADUATE STUDENTS).

CLASS OF 1910

Acker, James M. Jr. (B. S.)	Mississippi
Adams, Geo. B. (B.S.)	South Carolina
Austin, R. Baker, Jr.,	Mississippi
Baker, Joel Coleman (M. D.)	Oklahoma
Barker, Chas. J. (A.B.)	Louisiana
Bateman, Maurice	Louisiana
Bayle, Jules J. (M. Ph., A. M.)	Louisiana
Baylis, J. Ernest (B. S.)	Mississippi
Bean, James Frank (B.S.)	Alabama
Beckman, Albert (M. D.)	Texas
Bennett, John J. (M. D.)	Louisiana
*Beridon, Leon F.	Louisiana
Black, Samuel Milton (M. D.)	Illinois
Black, Wm. Thos.	Texas
Boswell, Hugh P:	Mississippi
Branch, Arthur C.	Georgia
Braswell, Wm. Cicero (A. B.)	Alabama
Braun, Isedor (M. Ph.)	Texas
Brewer, Osias C. (B.S.)	Mississippi
Brooksher, Saml. L. (M. D.)	Arkansas
Brown, John Wilcox, (Ph. C.)	Louisiana
*Brown, M. Earle	Louisiana
Browning, Joseph Robt. (M. D.)	Louisiana
Bryan, Lorenzo D.	North Carolina
Buckley, J. Charles	Mississippi
Bulloch, Hezzie D. (M. D.)	Louisiana
Carey, Victor F.	Louisiana
Cattermole, Geo. Henry (M. D.)	Colorado
Chauvin, Hubert E.	Louisiana
Chiasson, J. Leon	Louisiana

*Childs, Wm. Leo (M. Ph.)	Louisiana
Clark, T. Hardeman (Ph.G.)	Georgia
Cloud, R. Emmett (A.B.)	Alabama
Cole, Benj. J.	Louisiana
Cook, Abner H.	Arkansas
Crumbley, Pope B. (B.Phil.)	Georgia
Culpepper, Hy. Wilkins (M. D.)	Louisiana
Daly, Oliver P., Jr.	Louisiana
Dauterive, Henry J.	Louisiana
*David, Joseph D.	Louisiana
Davis, Carroll C.	Texas
Davis, Leon C.	Mississippi
Davis, Wm. Lee (M. D.)	Oklahoma
Dawson, Harris P. (B. S.)	Alabama
Dean, S. Clarence	South Carolina
deGravelles, Chas. C.	Louisiana
deMahy, Marcel J. (A. M.)	Louisiana
*Donald, Dan C.	Alabama
Dunn, John S. (M. D.)	Louisiana
Ehlert, J. Matheus (M. D.)	Louisiana
Ellis, Thos. C. W. (M. D.)	Louisiana
Evans, B. Palissy	Mississippi
*Faget, Francit M.	Louisiana
Feagin, Horace C.	Texas
*Ficklen, E. P. Alexander (B.S.)	Louisiana
French, Wm. August (M. D.)	Texas
Fuqua, Wm. Arthur (Ph. C.)	Oklahoma
*Gelpi, Maurice J. (A. B.)	Louisiana
Gill, W. Gregg	Mississippi
Graves, S. Dugan (M. D.)	Louisiana
Green, Chas. C. (B. S.)	Texas
Greene, Norvin E.	Mississippi
Guillotte, Wm. F.	Louisiana
Gurney, John Oliver (M. D.)	Mississippi
Hamner, C. Ernest	Louisiana
Harkey, Wm. Cathey (M. D.)	Kansas
Harrell, Lovell H.	Florida
Harris, Herriman H. (B. S.)	Georgia
Hayes, Wm. McLeod	Louisiana
Hearin, Willard C.	Mississippi
Henry, Eugene Lee (M. D.)	Louisiana

Henry, Gordon F.	Florida
*Horton, Chas. M. (A. B.)	Mississippi
Hountha, Joseph M. (A.B.)	Louisiana
Humphries, S. Robinson	Florida
Hunter, John Rogers (M. D.)	Texas
Hyde, A. Sidney J. (M. D., A. B.)	Louisiana
Keller, Alfred A.	Louisiana
Kennedy, Thos. P.	South Carolina
*King, Edward L.	Louisiana
Kory, Roscoe C. (A. B.)	Louisiana
*Landry, Edmond N.	Louisiana
Langston, DeWitt T.	Mississippi
*Larose, J. Browne (A.B.)	Louisiana
*Leidenheimer, Henry	Louisiana
Lindner, Henry J.	Louisiana
Lischkoff, Mozart A.	Florida
Lisenbee, A. Marcellus	Mississippi
Livingston, Joseph J.	Arkansas
*Love, Wm. Alvin (A. B., M. Ph.)	Louisiana
Luckett, Frank B.	Louisiana
McClendon, Jesse H.	Louisiana
McGehee, E. Charles	Mississippi
Magruder, Thos. V. (B.S.)	Mississippi
Mann, D. Aden (M. D.)	Texas
Miller, Charlie S., Jr. (B.S.)	Louisiana
Miller, Wallace E.	Louisiana
Milner, Robt. M.	Texas
Mitchell, Joseph G.	Louisiana
Mitchell, Leopold	Louisiana
Moers, Richard H. (M. Ph.)	Texas
Morgan, Eugene H. (M. D., M. Ph.)	Texas
Moore, H. Tate	Tennessee
Murphey, Thos. Walter	Mississippi
Murphy, Peter F.	Louisiana
Neal Saml. F.	Mississippi
Neal, Thurman M.	Texas
*Nelson, Harry E.	Louisiana
Newhauser, Mayer A.	Louisiana
*Newman, J. Arthur (B.S.)	Mississippi
Nix, James T. Jr. (B. S.)	Louisiana
Odeneal, Thos. H.	Mississippi

Olivier, Chas. K.	Louisiana
Paris, Walter Edwin (M. D.)	Georgia
Parker, Arthur C. (B.S.)	Arkansas
Parker, Prentiss E.	Tennessee
Paté, Saml. J. (M. D.)	Texas
Patterson, J. Cliatt	Alabama
Peacock, Clifford A.	Georgia
Phillips, Thos. E.	Alabama
Pope, Wm. H., Jr.	Texas
P'Pool, Matthew W. (M. D.)	Mississippi
Price, Robt. Black (M. D.)	Mississippi
Pridgen, Ross E.	Texas
Ramsay, Herbert H., M. D.,	Mississippi
Rankin, Howard P.	Alabama
Ray, James W.	Alabama
Robards, Eugene M.	Louisiana
Robertson, Edd. La Fayett (M. D.)	Mississippi
Roeling, Henry W. Jr., (M.Ph.)	Louisiana
*St. Martin, Thaddeus I.	Louisiana
Salerno, Emmanuel F.	Louisiana
Segura, J. Otto	Louisiana
Shanks, Robt. C.	Texas
Shaw, Frank H. (B. S.)	Texas
Sheppard, Julius Kelly (M. D.)	Louisiana
Siler, Frederick L. (M. D.)	North Carolina
Smith, Geo. Washington (M. D.)	Louisiana
Smith, John W. A.	Mississippi
*Staring, Houston L. (A.M.)	Louisiana
Stirling, Earl	Texas
Stowe, LeRoy (M. D.)	Louisiana
Taquino, George J.	Louisiana
Taylor, Thos. Bell (M. D.)	Texas
Tenney, Joseph P.	Louisiana
Terrell, Grover C. (B.S.)	Mississippi
Todd, Eiba B.	Louisiana
Trice, H. Sale	Mississippi
Triolo, Jerome M.	Texas
Tyler Louis I.	Mississippi
Tynes, Clifton E.	Mississippi
Wall, Thos. Henry	Louisiana
Wallace, R. Bruce (M. Ph.)	Louisiana
Walther, Henry W. E.	Louisiana

Watkins, John A.	Louisiana
Watson, Willie H.	Mississippi
West, Dandridge P. (M. Ph.)	Virginia
Whisnant, Baker	Alabama
Williamson, Wilson L.	Tennessee
*Wise, Saml. P. (A. B.)	Georgia
Wood, J. Powell	Texas
Yancey, Edwin R.	Louisiana
Yeates, Namo (B.S.)	Mississippi

THIRD-YEAR STUDENTS, CLASS OF 1911

Akin, Chas. V., Jr. (B. S.)	Mississippi
Arretteig, Ulysses J.	Louisiana
Azar, James A.	Louisiana
Beekman, Marcus	Mississippi
Berchelmann, Adolph	Mexico
Berry, W. Scott	Mississippi
Blakely, Rupert M. (A. B.)	Arkansas
Bodet, Roy E. (A. B.)	Louisiana
Bordenave, Claude J. (A.B.)	Louisiana
Bowers, Marvin Arthur (A. B.)	North Carolina
Brock, Lucious W.	Louisiana
Brooks, C. Stanford	Louisiana
Browne, Hugh Z.	Mississippi
Bruce, Claude H.	Texas
Caffey, Benj. Franklin (M.S.)	Alabama
Calhoun, Archie S.	Mississippi
Carter, Alcus J.	Mississippi
Carter, Harry M., Jr.	Louisiana
*Christian, S. Lewis	Louisiana
Coello, Carlos V. (B.Phil.)	Ecuador
Cooper, Covert B.	Texas
Dark, Virgil	Alabama
Day, Edward (B. S.)	Alabama
Dickson, Geo. B.	Louisiana
Doles, Howard P.	Louisiana
Donald, J. Glenn	Alabama
Edwards, Harold Guegnon	Louisiana
Fenn, Harry T.	Alabama
Fennell, Robt Foster	Alabama
Field, Columbus L.	Mississippi

Fleming, Patrick H.	Louisiana
*Fortier, Lucien A.	Louisiana
Fuller, Ned McG.	Louisiana
Gardner, Joseph S.	Louisiana
Garrett, J. DeWitt	Alabama
Gatlin, Joseph S.	Mississippi
Gautreau, Valmont J.	Louisiana
Geismar, Simon	Louisiana
Graves, W. Earl (A.B.)	Arkansas
Graves, William Russell (B. S.)	Mississippi
Gray, Denver F.	Louisiana
Hackney, Ben Hall	North Carolina
Harris, Erle M.	Louisiana
Harrison, Mac Millar (A. B.)	Florida
*Harrison, Roy B.	Louisiana
Hauer, Geo. Joseph (A. M.)	Louisiana
Henry, J. Edwards	Alabama
Hirsch, Julian G. (Ph.G.)	Louisiana
Hooker, Otho D.	Mississippi
Howell, Clifton A.	Oklahoma
Hoye, Matthew J. I. (A.B.)	Mississippi
Ingrum, Wilson P.	Texas
*Jamison, S. Chaillé	Louisiana
Kahn, Alfred M.	Mississippi
Kalloch, Dudley C.	Tennessee
King, James A.	Mississippi
Kirn, Theodore F.	Louisiana
Kopfler, Joseph S.	Louisiana
Kyser, J. Allen	Alabama
LeGwin, John B. (Ph. G.)	North Carolina
Lester, Wm. Evans	South Carolina
Liddle, Edward B.	Louisiana
Longino, Roy R.	Texas
McPherson, Webster B.	Alabama
McQueen, J. Pickens	Alabama
Martin, Thos. W	Louisiana
*Maxwell, J. Alston (B. S.)	Alabama
Melvin, Geo. McM.	Mississippi
Melvin, John W.	Mississippi
Miller, Victor H.	Louisiana
Neves, George	Oklahoma

Odum, Kirke S.	Louisiana
Patton, T. Herbert (A.B.)	Alabama
Payne, Robt. Lee	North Carolina
*Peters, James I.	Louisiana
Phelps, Meade H.	Louisiana
Pinkston, James C., Jr.	Alabama
Prosser, Wm. B.	Louisiana
Quin, Frank W.	Louisiana
Reynolds, Grover C. (B.Ped.)	Alabama
Roberts, James C.	Louisiana
Robinson, McCain (B.S.)	Alabama
Rosenthal, Simon J.	Louisiana
*Ross, Rex R.	Texas
Ruoff, John S., Jr. (A.B.)	Mississippi
St. Amant, Guy S.	Louisiana
Samuel, Ernest C.	Louisiana
Shackelford Clarence W.	Alabama
Sherman, Dollie O.	Texas
Sparks, D. Hoyt	Alabama
Spooner, John I.	Georgia
Stockton, Frederick E. (A.B.)	Connecticut
Thom, James Alex	Louisiana
Tichenor, Elmore D.	Louisiana
Tillery, Bert	Alabama
Travis, F. Downey	Louisiana
Wadlington, James A.	Mississippi
Warren, Robert Lee	North Carolina
Webb, R. Clyde, Jr. (B.S.)	Louisiana
Weissinger, Wm. T., Jr. (A.B.)	Alabama
White, Clarence M.	Louisiana
Woods, George Sidney	Texas
Young, Zachary Taylor	Louisiana

SECOND YEAR STUDENTS, CLASS OF 1912

Adiger, David	Louisiana
Allen, Larcus B.	Alabama
Ames, Allen M.	Mississippi
Ash, Geo. Glenmore, (M.Ph.)	Mississippi
Barham, Ben E. (D. V. S.)	Louisiana
Barker, Rich. J. H. (A. B.)	Louisiana
Beard, James Wiley	Alabama

Beesley, Scott C.	Oklahoma
Beraud, Ashton A.	Louisiana
Berry, Marcus L.	Mississippi
Bertucci, Emile A.	Louisiana
Billingsley, W. Hugh, Jr.	Louisiana
Bloch, Emile	Louisiana
Bloom, Chas. James (B.S.)	Louisiana
Bradburn, Muir, (B.S.)	Louisiana
Bradburn, Wm. P. Jr. (B.S.)	Louisiana
Brown, Camille P.	Louisiana
Bussey, Nornian A.	Texas
Carr, Isaac P.	Mississippi
Carter, Philips John (B.S.)	Florida
Clark, Wallace H.	Georgia
Clements, Merit De W.	Alabama
Conner, J. Clifton	Mississippi
Craddock, French H. (B. S.)	Alabama
Danna, Francis P.	Louisiana
Deignan, Joseph P.	Georgia
De Lamar, Rich. Francis	Georgia
De Velling, John R.	Mississippi
Dicks, John Fleming	Louisiana
Douglas, Robert G. (B.S.)	Louisiana
Duncan, Arnott Kell	Louisiana
Evans, H. Marvin	Oklahoma
Farrior, Saml. I.	Alabama
Faulk, L. Barkdull	Louisiana
Fite, H. Bartow (B. S.)	Oklahoma
Garvey, Walter	Mississippi
Gaulden, C. Louis (A.B.)	Mississippi
Geiger, Jacob Casson, Jr. (M.Ph.)	Louisiana
Graffagnino, Peter	Louisiana
Greene, Claud C.	Mississippi
Guilbeau, Stanley A.	Louisiana
Gunia, (y Cerice), Roger	Cuba
Hamilton, Wm. S., Jr.	Mississippi
Hamley, Wm. H.	Louisiana
Hardy, Walter B. (B.S.)	Alabama
Haydel, Stephen L. (A. M.)	Louisiana
Hays, Robert B. (B.S.)	Alabama
Heiman, Harry	Louisiana

Herman, Guy Leslie	Mississippi
†Holbrook, Chas. Shute (B.S.)	Louisiana
Jacobs, Adolph (A. B.)	Louisiana
Johns, Foster M.	Louisiana
Kelly, Hugh J.	Louisiana
Kerlin, Wm. Saml.	Louisiana
Kibbe, Pressley A.	Louisiana
Kilbourne, Armstead R.	Louisiana
Kirsch, Max D.	Alabama
Lee, H. W. Allen	Louisiana
Leigh, Robt. M. (B.S.)	Mississippi
Liddell, Tully J., (B.S.)	Mississippi
Lobrano, Wm. M. (A. M.)	Louisiana
Lorio, Lionel Francis, (A.B.)	Louisiana
Lyons, Joseph Sidney	Louisiana.
McGehee, Robt. M.	Louisiana
McKneely, J. Franklin	Louisiana
McKoin, Bunnie Mac (Ph. G.)	Louisiana
McKowen, John	Louisiana
McPherson, Hugh D.	Alabama
May, Ross Reynolds (B. S.)	Texas
Moore, Merwin B.	Mississippi
Mouton, Marc M.	Louisiana
Noble, Wm. D.	Mississippi
Oliver, Peyton H.	Louisiana
Palmarino, Dominick A.	Louisiana
Payne, W. Clifton	Alabama
Perry, Francis E. (A. B.)	Louisiana
Pipes, Bishop N.	Louisiana
Quin, O. Benton	Mississippi
Raphiel, Joseph	Louisiana
Reed, W. Arthur	Texas
Rosborough, Ely T.	Texas
Rosborough, Thos. C.	Texas
Sanders, G. Cecil	Texas
Scott, John Stanley	Louisiana
Scott, Warren F.	Louisiana
Sevier, Howard C.	Louisiana
Shackelford, J. Allen	Texas
Signorelli, John	Louisiana
Simonton, Edwin Caldwell (B.S.)	Louisiana

Smith, Alvah P. (M.Ph.)	Mississippi
Smith, James Edward	Alabama
Smith, Leslie Gordon	Mississippi
Songy, Stephen J. (B.S.)	Louisiana
Stanton, Edwin M,	Louisiana
Stovall, Wm. D. (B.S.)	Mississippi
Strauss, Alvin W.	Arkansas
Stringfield, John H.	Louisiana
Tolson, Thos. T.	Louisiana
Villaverde, Albert J.	Cuba
Wade, Herbert Windsor	Massachusetts
Waterhouse, John Edward	Louisiana
Williams, Wm. Orin	Texas
Williamson, D. Timothy,	Alabama
Wimberly, W. Ivy	Alabama
Wolf, Monroe	Mississippi

FIRST-YEAR STUDENTS, CLASS OF 1913

Arnold, Lloyd L.	Texas
Bailey, Richard R. (D. D. S.)	Louisiana
Barbour, Herbert L. (B. S.)	Kentucky
Baskin, Armstrong B.	Georgia
Bates, Thos. Hy.	Florida
Beard, Robt. B. (B. S. Eng.)	Alabama
Bernhard, Robert	Louisiana
Boudreaux, Luke Martial	Louisiana
Brandon, John Wm., Jr.	Louisiana
Butler Emmett D.	Mississippi
Coleman, Archie T.	Texas
Comeaux, A. Albert (Ph. G.)	Louisiana
Craighead, Joseph W.	Alabama
Cronan, George A.	Louisiana
D'Aunoy, Joseph R.	Louisiana
Davidson, T. Lee	Texas
deLaureal, Louis James (B. S.)	Louisiana
Denis, (Miss) Willey (Ph. D.)	Louisiana
Denman, Linwood H.	Texas
Driscoll, John J.	Louisiana
Dufner, Carl T.	Texas
Durham, Silas L.	Louisiana
Eeuyer, Edward W.	Louisiana

Faulk, John Wm.	Louisiana
Ferrell, Hanson D.	Louisiana
Fortner, Amos Hall, Jr.	Texas
Gondolf, Harold J.	Louisiana
Hamilton, Chas. Edward (A. B.)	Louisiana
Herrmann, Eerdinand H.	Georgia
Higdon, Budd H.	Mississippi
Hirsch, Edward K.	Mississippi
Hull, Austin O.	Texas
Johnson, Victor M.	Mississippi
Jones W. O'Daniel	Georgia
Kahn, S. David	Texas
Kappel, Archibald C. (A. B.)	Louisiana
Killikelly, Henry	Louisiana
Kyzar, James Hugh (Ph. G.)	Alabama
Lacroix, Paul G.	Louisiana
Lambeth, Walter P. (B. I.)	Louisiana
Landry, Paul T. (B. S.)	Louisiana
Lea, Pryor W. (D. D. S.)	Louisiana
Lee, Ben Alex.	Mississippi
Levy, Lewis H.	Louisiana
Lieberman, John Frank	Arkansas
McGehee, Henry A.	Mississippi
McHenry, Armand G.	Louisiana
McLeod, G. Floyd (A. B.)	Mississippi
McWilliams, Chas. Allen (B. S.)	Alabama
Mattes, Abraham	Louisiana
Maxwell, Thos. Andrew	Louisiana
Metz, Waldemar R.	Louisiana
Monrose, Francis Chas.	Louisiana
Moody, Maxwell (A. B.)	Alabama
Moreland, Wm. Edmond (A. B.)	Louisiana
Moulton, Joseph S.	Louisiana
Oriol, Raymond A., Jr.	Louisiana
Owen, Glendower	Louisiana
Petitjean, Ernest Joseph (B. S.)	Louisiana
Rand, Paul King	Texas
Roberts, Martin E.	Georgia
St. Clair, Cromwell D.	Alabama
Sample, Charlie M.	Arkansas
Sanders, John Gillis	Alabama

Sartin, Bennett (B. Phil.)	Mississippi
Sellers, Thos. Benton (Ph. Ch.)	Alabama
Sentell, Newton W.	Louisiana
Skinner, Edward Joseph	Louisiana
Smith, Wm. Kate	Arkansas
Stanley, Spencer A.	Louisiana
Tedesco, Ignatius	Louisiana
Terhune, Harry E.	Connecticut
Trimble, Wm. Wilbourne	Tennessee
Wicker, John Kieffer (A. B.)	South Carolina
Wise, B, Joel (A. B.)	Georgia
Wynne, Roland Edw.	Mississippi

DEPARTMENT OF PHARMACY

STUDENTS OF SECOND YEAR AND ABOVE, CLASS OF 1910

Harris, Earl	Texas
Wood, Wiley, M.	Louisiana

FIRST-YEAR STUDENTS, CLASS OF 1910

Bernauer, Joseph L.	Louisiana
Berry G. Garfield (B. S.)	Mississippi
Heard, John F. W.	Texas
Locascio, James	Louisiana
Matheson, Guy E.	Mississippi
Puller, John Shepard (B. S.)	Mississippi

GRADUATES OF 1910

At the Seventy-Sixth Annual Commencement, held Wednesday, May 18, 1910, degrees were conferred on 105 graduates, viz: 103 in Medicine and 2 in Pharmacy.

DOCTOR OF MEDICINE

James Milton Acker, Jr.
George Bunch Adams,
Richard Baker Austin, Jr.
Charles Jacob Barker,
Maurice Bateman,
James Ernest Baylis.
James Frank Bean,
William Thomas Black,
Arthur Clifton Branch,
William Cicero Braswell,
Isedor Braun,
Osias C. Brewer.
Lorenzo Dow Bryan,
Joseph Charles Buckley,
Victor Frank Carey,
Hubert Emile Chauvin,
John Leon Chiasson,
Thomas Hardeman Clark,
Robert Emmett Cloud,
Benjamin Jefferson Cole,
Abner Hugh Cook,
Pope Barrow Crumbley,
Oliver Perry Daly, Jr.
Henry Joseph Dauterive,
Carroll Church Davis,
Leon Curtis Davis,
Harris Pickens Dawson,
Samuel Clarence Dean,
Charles Camille de Gravelles,
Marcel Joseph DeMahy,
Bernard Palissy Evans,
Horace Cecil Peagin,

William Arthur Fuqua,
William Gregg Gill,
Charles Campbell Green,
Norvin Earl Greene,
William Frederick Guillotte.
Lovell Hampton Harrell,
Herriman Hirsch Harris,
William McLeod Hayes,
William Clifton Hearin,
Gordon Fuller Henry,
Joseph Marion Hountha,
Solon Robinson Humphries.
Alfred Anthony Keller,
Thomas Perrin Kennedy,
Roscoe Conklin Kory,
Dewitt Talmage Langston,
Henry John Lindner,
Mozart A. Lischkoff,
Alex. Marcellus Lisenbee,
Joseph Jerome Livingston,
Frank Burkley Luckett,
Jesse Harrell McClendon,
Edward Charles McGehee,
Thomas Vannoy Magruder,
Charles Sims Miller, Jr.
Wallace Eugene Miller,
Robert Michael Milner,
Joseph Grover Mitchell,
Leopold Mitchell,
Richard Henry Moers,
Hugh Tate Moore,
Thomas Walter Murphey,

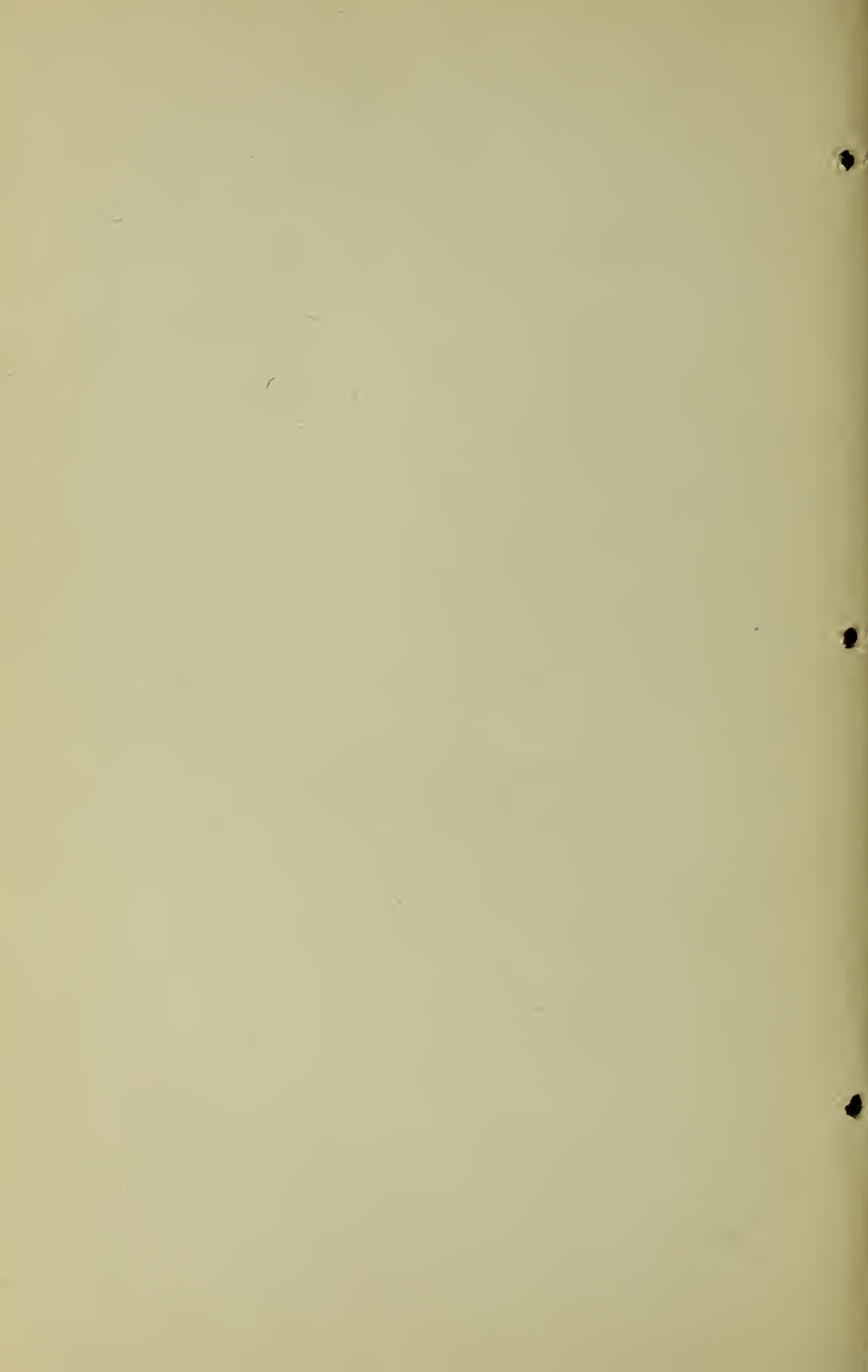
DOCTOR OF MEDICINE—CONTINUED

Peter Francis Murphy,	Julius Kelly Sheppard,
Thurman McLeod Neal,	George Washington Smith,
Mayer Aby Newhauser,	John Walter Anthony Smith,
James Thomas Nix, Jr.	Earl Stirling,
Thomas Helm Odeneal,	Grover Cleveland Terrell,
Charles Kossuth Olivier,	Eiba Bristow Todd,
Arthur Clarence Parker,	Hoyte Sale Trice,
Prentiss Edward Parker,	Louis Ira Tyler,
John Cliatt Patterson,	Clifton Edgar Tynes,
Clifford Augustin Peacock,	Robert Bruce Wallace,
Thomas Edward Phillips,	Henry Wellman Emile Walther,
William Harris Pope, Jr.	John Armstrong Watkins,
Ross Edwin Pridgen,	Willie Harvey Watson,
Howard Payne Rankin,	Dandridge Payne West,
Eugene Merrill Robards, Jr.	Baker Whisnant,
Henry William Reoling,	Wilson Lycurgus Williamson,
Emmanuel Francis Salerno,	Josh Powell Wood,
Joseph Otto Segura,	Edward Rhinehart Yancey,
Robert Cornelious Shanks,	Namo Yeates.
Frank Hawthorn Shaw,	

PHARMACEUTICAL CHEMIST

Earl Harris,

Wiley Morgan Wood.



NEW ORLEANS POLYCLINIC, POST-GRADUATE MEDICAL DEPARTMENT OF THE TULANE UNIVERSITY OF LOUISIANA

TULANE AVENUE AND LIBERTY STREET

PROFESSOR CHAS. L. CHASSAIGNAC, DEAN, Genito-Urinary and Rectal Diseases.

PROFESSOR P. E. ARCHINARD, Diseases of the Nervous System.

PROFESSOR A. G. FRIEDRICHS, Dental and Oral Surgery.

PROFESSOR P. MICHINARD, Obstetrics and Gynecology.

PROFESSOR T. S. KENNEDY, Diseases of Children.

PROFESSOR G. FARRAR PATTON, Clinical Medicine.

PROFESSOR E. D. MARTIN, General Surgery.

PROFESSOR J. A. STORCK, Diseases of the Digestive System.

PROFESSOR FELIX A. LARUE, Operative and Clinical Surgery.

PROFESSOR E. M. DUPAQUIER, Clinical Therapeutics and Tropical Medicine.

PROFESSOR H. S. COCRAM, Clinical Gynecology.

PROFESSOR OTTO LERCH, Medical Diagnosis.

PROFESSOR C. JEFF. MILLER, Diseases of the Ear, Nose, and Throat.

PROFESSOR F. A. ROBIN, Operative Gynecology.

PROFESSOR E. A. ROBIN, Diseases of the Eye.

PROFESSOR JOHN F. OECHSNER, Orthopedics and Surgical Diseases of Children.

PROFESSOR S. P. DELAUP, Surgery of the Genito-Urinary Organs and Rectum.

PROFESSOR H. E. MENAGE, Diseases of the Skin.

PROFESSOR W. M. PERKINS, Clinical and Minor Surgery.

The twenty-fourth annual session opens October 31, 1910 and closes May 27, 1911. Physicians will find the Polyclinic an excellent means for posting themselves upon modern progress in all branches of medicine and surgery. The specialties are fully taught, including laboratory and cadaveric work.

TABLE OF RATES

	SIX WEEKS	FOUR WEEKS
Any single branch.....	\$ 15 00	\$ 12 00
Any two or more branches, each.....	12 00	10 00
All branches (20).....	100 00	75 00

For all other information, address,

CHAS. L. CHASSAIGNAC, M. D.,

Dean New Orleans Polyclinic,

Post-Graduate Medical Department of the Tulane University
of Louisiana, Box 797, New Orleans, La.



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